

GenCore version 5.1.6  
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OM nucleic - protein search, using frame\_plus\_n2p model

Run on: April 21, 2004, 16:13:29 ; Search time 15.5271 Seconds  
(without alignments)  
11191.613 Million cell updates/sec

Title: US-09-049-696-19  
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Scoring table: BLOSUM62

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Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 778828

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Database : Issued Patents AA:\*  
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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2521	82.9	914	4	US-09-623-624-6
2	2518	82.8	914	4	US-09-193-562D-28
3	1906	62.7	913	4	US-09-623-624-2
4	1477	48.6	917	4	US-09-049-698-41
5	1203	39.6	228	1	US-08-469-667-9
6	1203	39.6	228	4	US-09-224-110-9
7	1203	39.6	228	5	PCT-US95-07289-9
8	1198	39.4	903	4	US-09-193-562D-46
9	1147	37.7	903	4	US-09-623-624-18
10	1106	36.4	905	4	US-09-193-562D-2
11	1095	36.0	902	4	US-09-193-562D-34
12	1069	35.2	1000	4	US-09-193-562D-30

ALIGNMENTS

RESULT 1  
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; Sequence 6, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01

Sequence 357, App  
Sequence 87, Appl  
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Sequence 6, Appl  
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Sequence 15, Appl  
Sequence 10, Appl  
Sequence 10, Appl

; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-623-624-6

Alignment Scores:  
Pred. No.: 1,678-239 Length: 914  
Score: 2521.00 Matches: 488  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 82.93% Indels: 0  
DB: 4 Gaps: 0

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QY 123 GGCCTCATGTATGCTTTGGGGCCCTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCTCC 182
DB 467 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486
QY 183 ATCCAGCTTGACAGTAAGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAGTG 242
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QY 243 ATCGTGGACAGCACCGTGGGAAAGACACTTTGTTTTCATCACCTGGGACAAACGCGCCT 302
DB 507 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 526
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DB 527 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys 546
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QY 483 ACCCTGCTCCCAATACAGTGACTTCCAAAACGACAGGACACCAAGCAATTCCTCCAGC 542
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QY 1443 GGAGAACTGCAGCTGCTCAATAGCC 1466
DB 907 GlyGluLeuGlnLeuSerIleAla 914
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## RESULT 2

US-09-193-562D-28  
; Sequence 28, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 28  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-193-562D-28

Alignment Scores:  
Pred. No.: 3,36-239 Length: 914  
Score: 2518.00 Matches: 487  
Percent Similarity: 100.00% Conservative: 1  
Best Local Similarity: 99.80% Mismatches: 0  
Query Match: 82.83% Indels: 0  
DB: 4 Gaps: 0



US-09-049-696-19 (1-1693) x US-09-193-562D-28 (1-914)

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QY 1443 GGAGAACTGCAGCTGTCAATAGCC 1466  
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## RESULT 3

US-09-623-624-2  
; Sequence 2, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors, Including Asthma and Related  
; TITLE OF INVENTION: Asthma-Associated Factors, Including Asthma and Related  
; TITLE OF INVENTION: Asthma-Associated Factors, Including Asthma and Related  
; TITLE OF INVENTION: Asthma-Associated Factors, Including Asthma and Related  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 2  
; LENGTH: 913  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-09-623-624-2

## Alignment Scores:

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Score: 1906.00 Matches: 365
Percent Similarity: 87.30% Conservative: 61
Best Local Similarity: 74.80% Mismatches: 56
Query Match: 62.70% Indels: 6
DB: 4 Gaps: 3

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QY 1140 TCTCTTCAAGTGAATACTACTCTCTCATCCAAAGGAAGCAACTCTGAGGAAGCTTTT 1199
Db 806 SerLeuGlnValAsnThrThrGlyLeuIleProLysGluAlaSerSerGluLeuPhe 825
QY 1200 TTGTTTAAACAGAAAACATTACTTTTGAATAATGCGACAGATCTTTTCACTGCTATTCA 1259
Db 826 GluPheGluLeuGlyGlyAsnThrPheGlyAsnGlyThrAspIlePheIleAlaIleGln 845
QY 1260 GCTGTTGATAGTTCGATCTGAAATCAGAAATATCCAACTTGCACGAGTATCTTTGTTT 1319
Db 846 AlaValAspLysSerAsnLeuLysSerGluIleSerAsnIleAlaArgValSerValPhe 865
QY 1320 ATCTCTCCACAGACTCCGCCAGACACCTAGTCTGATGAAACGCTGCTCTGTGTCTCT 1379
Db 866 IleProAlaGlnGluPro-----ProIleProGluAspSerThrProProCysPro 882
QY 1380 AATATTCATATCAACAGCACCATTCTCTGGCATTACATTTTAAATAATTTATGTGAAGTGG 1439
Db 883 AspIleSerIleAsnSerThrIleProGlyIleHisValLeuLysIleMetTrpLysTrp 902
QY 1440 ATAGAGAACTGCGAGCTGCTCAATA 1463
Db 903 LeuGlyGluMetGlnValThrLeu 910

RESULT 4
US-09-049-698-41
; Sequence 41, Application US/09049698
; Patent No. 6368792
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA A.
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: HAYDEN, MARK
; APPLICANT: KLASS, MICHAEL R.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL
; TITLE OF INVENTION: TRACT
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESS: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/049,698
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/828,856
```

```

; FILING DATE: 31-MAR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6068.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 41:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 917 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: No. 6368792e
US-09-049-698-41

Alignment Scores:
Pred. No.: 1,25e-136 Length: 917
Score: 1477.00 Matches: 293
Percent Similarity: 75.26% Conservative: 72
Best Local Similarity: 60.41% Mismatches: 112
Query Match: 48.55% Indels: 8
DB: 4 Gaps: 5

US-09-049-696-19 (1-1683) x US-09-049-698-41 (1-917)
QY 3 CAAAGTGTGGCCATCATCCACAGCTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62
DB 428 GlnSerGlyAlaIleValHisPheIleAlaLeuGlyArgAlaAlaAspGluAlaValIle 447
QY 63 GAGCTGTCCAAATACACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAT 122
DB 448 GluMetSerLysIleThrGlySerHisPheTyrValSerAspGluAlaGlnAsnAsn 467
QY 123 GGCCTCATGTATGCTTTGGGGCCCTTTTCATCAGAAATGGAGCTGTCTCTCAGGCTCC 182
DB 468 GlyLeuIleAspAlaPheGlyAlaLeuThrSerGlyAsnThrAspLeuSerGlnLysSer 487
QY 183 ATCCAGCTTGACAGTAAGGATTAACCTCCAGACAGCCAGCTGATGATGCGCAGCTG 242
DB 488 LeuGlnLeuGluSerLysGlyLeuThrLeuAsnSerAsnAlaTrpMetAsnAspThrVal 507
QY 243 ATCTGTGGACAGCCGCTGGGAAAGACACTTTGTTCTTATCACCCTGGGACAAACGAGCT 302
DB 508 IleIleAspSerThrValGlyLysAspThrPhePheLeuIleThrTrpAsnSerLeuPro 527
QY 303 CCCCAAAATCTCTCTGGGATCCAGTGACAGAGCAAGAGGCTGTTTGTATGGCAAA 362
DB 528 ProSerIleSerLeuTrpAspProSerGlyThrIleMetGluAsnPheThrValAspAla 547
QY 363 AACACCAAAATGGCTTACCTCAATCCAGGATGCTTAAGTTGGCACTTGGAAATAC 422
DB 548 ThrSerLysMetAlaTyrLeuSerIleProGlyThrAlaLysValGlyThrTrpAlaTyr 567
QY 423 AGCTGTCCAGCAAGCTCA-----CAAACTGTGACCTGCTACGCTCCCGTGGCTCC 476
DB 568 AsnLeuGlnAlaLysAlaAsnProGluThrLeuThrIleThrValThrSerArgAlaAla 587
QY 477 AATGTACCTCCCTCCCAATTACAGTACTTCCAAACGAACAGACAGACACCAAGAAATTC 536
DB 588 AsnSerSerValProProIleThrValAsnAlaLysMetAsnLysAspValAsnSerPhe 607
QY 537 CCCAGCCTCTGGTATGTTATGCAATATTCGCAAGAGGCTCCCAATTCAGGGCC 596
DB 608 ProSerProMetIleValTyrAlaGluIleLeuGlnGlyTyrValProValLeuGlyAla 627
QY 597 AGTGTCCAGCCCTCGATTCAATCAGTGAATGAAACACAGTTACCTTGGAACTACTGGAT 656
DB 628 AsnValThrAlaPheIleGluSerGlnAsnGlyHisThrGluValLeuGluLeuAsp 647
QY 657 AATGGAGCAGGTGCTGATCTACTAAGGATGACGGTGTCTACTCAAGGTATTTCACAACT 716

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DB 648 AsnGlyAlaGlyAlaAspSerPheLysAsnAspGlyValTyrSerArgTyrPheThrAla 667
QY 717 TATGACACGAATGGTAGATACAGTGTAAAGTGGCGGCTCTCGGAGAGTAAACGCGAGCC 776
DB 668 TyrThrGluAsnGlyArgTyrSerLeuLysValArgAlaHisGlyGlyAlaAsnThrAla 687
QY 777 AGACGAGAGTATACCCGACGAGAGTGGAGCACGTGTACATACCTGGCTGGATTGAGAAT 836
DB 688 ArgLeuLysLeuArgProLeuAsnArgAlaAlaTyrIleProGlyTrpValValAsn 707
QY 837 GATGAATACAAATCCACAGACCTGAATTAATAAGAGTATGTTCAACACAAG 896
DB 708 GlyGluIleGluAlaAsnProProArgProGluIleAsp---GluAspThrGlnThrThr 726
QY 897 CAAAGTGTGTTTCAGCAGAACATCTCCGGAGAGCTCATTTGTGGCTTCTCATGTGCCAAAT 956
DB 727 LeuGluAspPheSerArgThrAlaSerGlyGlyAlaPheValValSerGlnValProSer 746
QY 957 GCTCCATACCTGATCTCTTCCACCTGGCCAAATACACGACCTGAAGCGGAAATTCAC 1016
DB 747 LeuProLeuProAspGlnTyrProProSerGlnIleThrAspLeuAspAlaThrValHis 766
QY 1017 GGGGCGAGTCTCATTAATCTGACTTGGACAGCTCCTGGGAGTATATACCATGCAACA 1076
DB 767 GluAspLysIleIle---LeuThrTrpThrAlaProGlyAspAsnPheAspValGlyLys 785
QY 1077 GCTCAAGATATATCATTCGAATAAGTACAAGTATTCTTGTATCTCAGACAGAACTCAAT 1136
DB 786 ValGlnArgTyrIleIleArgIleSerAlaSerIleLeuAspLeuArgAspSerPheAsp 805
QY 1137 GAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAAGGAAGCCAACTCTGAGGAAGTC 1196
DB 806 AspAlaLeuGlnValAsnThrThrAspLeuSerProLysGluAlaAsnSerLysGluSer 825
QY 1197 TTTTGTGTTAAACCCAGAAAACATTAATTTTGAATGGCAGACAGATCTTTTCATGTATT 1256
DB 826 PheAlaPheLysProGluAsnIleSerGluGluAsnAlaThrHisIlePheIleAlaIle 845
QY 1257 CAGGCTGTTGATAAGTGTGATCTGAAATCAGAAATATCAACATTCACGAGTATCTTGTG 1316
DB 846 LysSerIleAspSerAsnLeuThrSerLysValSerAsnIleAlaGlnValThrLeu 865
QY 1317 TTTTATCTCCAGACTCCGCGAGAGACACCTAGTCTGTGATGAAACGCTCTGCTCTGT 1376
DB 866 PheIle---ProGlnAlaAsnProAspAlaAspProThrProThrProThrProThr 884
QY 1377 CCTAATATTCATCAACAGCAGCACCATTCTGGCATTCACATTTTAAATATATGTGAAG 1436
DB 885 ProAspLysSerHisAsnSer-----GlyValAsnIleSerThrLeuValLeuSer 901
QY 1437 TCGATAGGAGAACTG 1451
DB 902 ValIleGlySerVal 906

RESULT 5
US-08-469-667-9
; Sequence 9, Application US/08469667
; Patent No. 5733748
; GENERAL INFORMATION:
; APPLICANT: Yu, Guo-Liang
; APPLICANT: Rosen, Craig
; TITLE OF INVENTION: Colon Specific Genes and Proteins
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,
; ADDRESSEE: Stewart & Olstein
; STREET: 6 Becker Farm Road
; CITY: Roseland
; STATE: NJ USA
; COUNTRY: USA
; ZIP: 07068-1739
; COMPUTER READABLE FORM:

```

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
FILING DATE: 06-JUN-1995  
CLASSIFICATION: 536  
ATTORNEY/AGENT INFORMATION:  
NAME: Ferraro, Gregory D.  
REGISTRATION NUMBER: 36,134  
REFERENCE/DOCKET NUMBER: 325800-435  
TELEPHONE: 201-994-1700  
TELEFAX: 201-994-1744  
INFORMATION FOR SEQ ID NO: 9:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 228 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-469-667-9

Alignment Scores:  
Pred. No.: 5,87e-110 Length: 228  
Score: 1203.00 Matches: 228  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 39.57% Indels: 0  
DB: 1 Gaps: 0

US-09-049-696-19 (1-1683) x US-08-469-667-9 (1-228)

QY 693 GTCTACTCAAGTATTTTCAACTTATGACAGATGGTAGATACAGTGTAAAGTGGG 752  
Db 1 ValTyrSerArgTyrPheThrThrTyrAspThrAsnGlyArgTyrSerVallysValArg 20  
QY 753 GCTCTGGGAGGAGTTAAACGACGAGAGTATACCCAGAGTGGAGTGGAGCAGTG 812  
Db 21 AlaLeuGlyGlyValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeu 40  
QY 813 TACATACCTGGCTGGATTGAGAAATGATGAATACAAATGGAATCCACAGACCTGAAAT 872  
Db 41 TyrIleProGlyTyrPheIleGluAsnAspGluIleGlnTyrAsnProProArgProGluIle 60  
QY 873 AATAGGATGATGTTCAACACAGAGTGTCTTTTACGACGAGACATCTCTGGAGGCTCA 932  
Db 61 AsnLysAspAspValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySer 80  
QY 933 TTTGTGGCTTCTGTGTCCTCAATGCTCCACATCTGATCTCTCCACCTGGCCAAATC 992  
Db 81 PheValAlaSerAspValProAsnAlaProIleProAspLeuPheProProGlyGlnIle 100  
QY 993 ACCGACCTGAAGCGGAAATTCACGGGGGAGCTCTCATTAACTGACCTGGACAGCTCT 1052  
Db 101 ThrAspLeuLysAlaGluIleHisGlyGlySerLeuIleAsnLeuThrTyrThrAlaPro 120  
QY 1053 GGGGATGATTATGACATGGAACAGCTCAAGTATATCATTCGAAATGATGACAGTATT 1112  
Db 121 GlyAspAspTyrAspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIle 140  
QY 1113 CTTGATCTCAGAGACAGTTCATGAATCTCTTCAAGTGAATACTGCTCTCATCCCA 1172  
Db 141 LeuAspLeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIlePro 160  
QY 1173 AAGGAAGCCAACTCTGAGGAAGTCTTTTGTGTTAAACAGAAACATTACTTTTGAAT 1232  
Db 161 LysGluAlaAsnSerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsn 180  
QY 1233 GGCACAGATCTTTTTCATGCTATTACGCTGTTGATAGGTCGATCTGAAATCAGAAATA 1292  
Db 181 GlyThrAspLeuPheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIle 200

QY 1293 TCCAACATTGCAGAGTATCTTTTATTCTTCTCCACAGACTCCGCCAGAGACACTAGT 1352  
Db 201 SerAsnIleAlaArgValSerLeuPheIleProGlnThrProGluThrProSer 220  
QY 1353 CTTGATGAAACGTCCTGCTCTTGT 1376  
Db 221 ProAspGluThrSerAlaProCys 228

## RESULT 6

US-09-224-110-9  
Sequence 9, Application US/09224110  
Patent No. 6337195  
GENERAL INFORMATION:  
APPLICANT: Yu, Guo-Liang  
APPLICANT: Rosen, Craig  
TITLE OF INVENTION: Colon Specific Genes and Proteins  
NUMBER OF SEQUENCES: 24  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,  
STREET: 6 Becker Farm Road  
CITY: Roseland  
STATE: NJ  
COUNTRY: USA  
ZIP: 07068-1739  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/224,110  
FILING DATE:

CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/469,667  
FILING DATE: 06-JUN-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Ferraro, Gregory D.  
REGISTRATION NUMBER: 36,134  
REFERENCE/DOCKET NUMBER: 325800-435  
TELEPHONE: 201-994-1700  
TELEFAX: 201-994-1744  
INFORMATION FOR SEQ ID NO: 9:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 228 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-224-110-9

Alignment Scores:  
Pred. No.: 5,87e-110 Length: 228  
Score: 1203.00 Matches: 228  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 39.57% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-19 (1-1683) x US-09-224-110-9 (1-228)

QY 693 GTCTACTCAAGTATTTTCAACTTATGACAGATGGTAGATACAGTGTAAAGTGGG 752  
Db 1 ValTyrSerArgTyrPheThrThrTyrAspThrAsnGlyArgTyrSerVallysValArg 20  
QY 753 GCTCTGGGAGGAGTTAAACGACGAGAGTATACCCAGAGTGGAGTGGAGCAGTG 812  
Db 21 AlaLeuGlyGlyValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeu 40  
QY 813 TACATACCTGGCTGGATTGAGAAATGATGAATACAAATGGAATCCACAGACCTGAAAT 872  
Db 41 TyrIleProGlyTyrPheIleGluAsnAspGluIleGlnTyrAsnProProArgProGluIle 60

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QY 873 AATAAGGATGATGTTTCAACACAGCAAGAGTGTGTTTTCAGCAGAACATCTCTCGGAGGCTCA 932
DB 61 AsnLysAspValGlnHisLysGlnValCysPheSerArgThrSerGlyGlySer 80
QY 933 TTTGTGGCTTCGATGTCCTCAATGCTCCATACCTGATCTCTCCACCTGGCCAAATC 992
DB 81 PheValAlaSerAspValProAsnAlaProIleProAspLeuPheProGlyGlnIle 100
QY 993 ACCGACTCAAGCGGAAATTCACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCTCT 1052
DB 101 ThrAspLeuLysAlaGluIleHisGlySerLeuIleAsnLeuThrTrpThrAlaPro 120
QY 1053 GGGGATGATTATGACCATGCAACAGCTCAAGTATATCATTCGAATAAGTACAAGTATT 1112
DB 121 GlyAspAspTyrAspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIle 140
QY 1113 CTTGATCTCAGACAGCAAGTTCATGATCTCTCAAGTGAATACTACTCTCTCATCCCA 1172
DB 141 LeuAspLeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIlePro 160
QY 1173 AAGGAAGCAACTCTCAGCAAGTCTTTTGTGTTTAAACCAAGAAACATTTACTTTGAAAT 1232
DB 161 LysGluAlaAsnSerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsn 180
QY 1233 GGCACAGATCTTTTCAATTCATTCAGGCTGTTGATTAAGTCTGATCTGAAATCAGAAATA 1292
DB 181 GlyThrAspLeuPheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIle 200
QY 1293 TCCAACTTGCAGGATCTCTTGTGTTTATCTTCCACAGACTCCGCGCAGACACCTAGT 1352
DB 201 SerAsnIleAlaArgValSerLeuPheIleProGlnThrProGluThrProSer 220
QY 1353 CTGTGTAAGCTCTGCTCTTGT 1376
DB 221 ProAspGluThrSerAlaProCys 228

RESULT 7
PCT-US95-07289-9
; Sequence 9, Application PC/TUS9507289
; GENERAL INFORMATION:
; APPLICANT: Yu, Guo-Liang
; APPLICANT: Rosen, Craig
; TITLE OF INVENTION: Colon Specific Genes and Proteins
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Carella, Byrne, Bain, Galfillan, Cecchi,
; ADDRESSEE: Stewart & Olstein
; STREET: 6 Becker Farm Road
; CITY: Roseland
; STATE: NJ
; COUNTRY: USA
; ZIP: 07068-1739
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/07289
; FILING DATE: 06-JUN-1995
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Ferraro, Gregory D.
; REGISTRATION NUMBER: 36,134
; REFERENCE/DOCKET NUMBER: 325800-265
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-994-1700
; TELEFAX: 201-994-1744
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 228 amino acids
; TYPE: amino acid
```

```
; TOPOLOGY: linear
; MOLECULE TYPE: protein
PCT-US95-07289-9
Alignment Scores:
Pred. No.: 5,87e-110 Length: 228
Score: 1203.00 Matches: 228
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 39.57% Indels: 0
DB: 5 Gaps: 0
US-09-049-696-19 (1-1683) x PCT-US95-07289-9 (1-228)
QY 693 GTCTACTCAAGTATTTTCAAACTTATGACAGCAATGGTAGATACAGTGTAAAAGTCGG 752
DB 1 ValTyrSerArgTyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArg 20
QY 753 GCTCTGGGAGGAGTTAAACGACGCCAGACGGAGAGTGATACCCAGCAGAGTGGAGCACTG 812
DB 21 AlaLeuGlyGlyValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeu 40
QY 813 TACATACCTGGCTGGATTGAGATGATGAATACAAATGAATCCACCAAGACCTGAAAT 872
DB 41 TyrIleProGlyTyrIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIle 60
QY 873 AATAAGGATGATGTTTCAACACAGCAAGTGTGTTTTCAGCAGAACATCTCTCGGAGGCTCA 932
DB 61 AsnLysAspAspValGlnHisLysGlnValCysPheSerArgThrSerGlyGlySer 80
QY 933 TTTGTGGCTTCGATGTCCTCAATGCTCCATACCTGATCTCTCTCCACCTGGCCAAATC 992
DB 81 PheValAlaSerAspValProAsnAlaProIleProAspLeuPheProGlyGlnIle 100
QY 993 ACCGACTCAAGCGGAAATTCACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCTCT 1052
DB 101 ThrAspLeuLysAlaGluIleHisGlySerLeuIleAsnLeuThrTrpThrAlaPro 120
QY 1053 GGGGATGATTATGACCATGCAACAGCTCAAGTATATCATTCGAATAAGTACAAGTATT 1112
DB 121 GlyAspAspTyrAspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIle 140
QY 1113 CTTGATCTCAGACAGCAAGTTCATGATCTCTTCAAGTGAATACTACTCTCTCATCCCA 1172
DB 141 LeuAspLeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIlePro 160
QY 1173 AAGGAAGCAACTCTCAGCAAGTCTTTTGTGTTTAAACCAAGAAACATTTACTTTGAAAT 1232
DB 161 LysGluAlaAsnSerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsn 180
QY 1233 GGCACAGATCTTTTCAATTCATTCAGGCTGTTGATTAAGTCTGATCTGAAATCAGAAATA 1292
DB 181 GlyThrAspLeuPheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIle 200
QY 1293 TCCAACTTGCAGGATCTCTTGTGTTTATCTTCCACAGACTCCGCGCAGACACCTAGT 1352
DB 201 SerAsnIleAlaArgValSerLeuPheIleProGlnThrProGluThrProSer 220
QY 1353 CTGTGTAAGCTCTGCTCTTGT 1376
DB 221 ProAspGluThrSerAlaProCys 228

RESULT 8
US-09-193-562D-46
; Sequence 46, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
```

; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 46  
; LENGTH: 903  
; TYPE: PRT  
; ORGANISM: Unknown  
; FEATURE:  
; OTHER INFORMATION: Calcium sensitive chloride channel from bovine tracheal  
; OTHER INFORMATION: epithelium (Cunningham et al., 1995, J. Biol. Chem., 270:31016-  
; OTHER INFORMATION: 31026)  
; OTHER INFORMATION: 31026)  
US-09-193-562D-46

Alignment Scores:  
Pred. No.: 3-84e-109 Length: 903  
Score: 1198.00 Matches: 253  
Percent Similarity: 70.07% Conservative: 70  
Best Local Similarity: 54.88% Mismatches: 118  
Query Match: 39.41% Indels: 20  
DB: 4 Gaps: 9

US-09-049-696-19 (1-1693) x US-09-193-562D-46 (1-903)

QY 3 CAAGTGTGCGCATCATCCACAGCTGCTTTGGGCGCTCTCGAGCTCAAGAACTAGAG 62  
Db 430 GlnSerGlyValIleIleHisThrValAlaLeuGlyProSerAlaAlaLysGluLeuGlu 449  
QY 63 GAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACAT 122  
Db 450 ThrLeuSerAspMetThrGlyGlyHisArgPheThrAlaAsnLysAspIle-----Asn 467  
QY 123 GCGCTCATTTGCTTTGGGCGCTTTTCATCAGGAATGAGCTGCTCTCAGCGCTCC 182  
Db 468 GlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIleThrGlnGlnThr 487  
QY 183 ATCCAGCTTGAGTAAGGATTAACCTCCAGAACAGCAGCTGGATGATGATGACAGCTG 242  
Db 488 IleGlnLeuGluSerLysAlaLeuAlaIleThrGluLysLysTrpValAsnGlyThrVal 507  
QY 243 ATCTGGAGACAGCGTGGGAAGGACACTTGTTCATCAGCTGGATGATGACAGCGCT 302  
Db 508 ProValAspSerThrIleGlyAsnAspThrPhePheValValThrTrpThrIleLysLys 527  
QY 303 CCCAAATCTCTCTGGGATCCAGTGACAG-----AAGCAAGTGGCTTTGTAGTG 356  
Db 528 ProGluIleLeuLeuGlnAspProLysGlyLysLysThrLysThrSerAspPheLysGlu 547  
QY 357 GACAAA---AACACCAAAATGGCTTACCTCCAAATCCAGGCAATGCTAAGGTTGGCACT 413  
Db 548 AspLysLeuAsnIleHisSerAlaArgLeuArgIleProGlyIleAlaGluThrGlyThr 567  
QY 414 TGGAAATACAGCTG-----CAAGCAAGCTCACAACTTGCACCTGACTGTCCAG 464  
Db 568 TrpThrThrSerLeuLeuAsnAsnHisAlaSerProGlnIleLeuThrValThrValThr 587  
QY 465 TCCCGTGGCTCAAGTCTACCTGCTCCCAATACAGTACTTCCAAACAGCAAGAC 524  
Db 588 ThrArgAlaArgSerProThrThrProProValThrAlaThrAlaHisMetAsnGlnAsn 607  
QY 525 ACCAGCAAAATCCCGAGCTCTGTGTAGTTTATGCAAAATATTTCGCAAGGACCTCCCA 584  
Db 608 ThrAlaHisThrProSerProValIleValThrAlaGlnValSerGlnGlyPheLeuPro 627  
QY 585 ATTCTCAGGCGGCTGTCAGCGCTGATGATGATGATGATGATGATGATGATGATGATG 644  
Db 628 ValLeuGlyIleAsnValThrAlaIleIleGluThrGluAspGlyHisGlnValThrLeu 647  
QY 645 GAACTACTGTAATGAGCAGCTGCTGATGCTACTAAGGATGACGCTGTCTACTCAAGG 704  
Db 648 GluLeuTrpAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValThrSerArg 667  
QY 705 TATTTTCAACATTTATGACAGCAATGGTAGATACAGTGTAAAGTGGGCTCTGGGAGGA 764

Db 668 TyrPheThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThr 687  
QY 765 GTTAAACGCGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 824  
Db 688 AsnAsnThrAlaArgLeuSerLeuArgGlnProGlnAsnLysAlaLeuThrIleProGly 707  
QY 825 TGGATTGAGAATGATGAATACAATGGAATCCCAAGACCTGAAATTAATTAAGGATGAT 884  
Db 708 TyrIleGluAsnGlyLysIleIleLeuAsnProProArgProGluVal---LysAspAsp 726  
QY 885 GTTCAACAACAAGCAAGTG---TGTTTCAGCAGAACATCTCTGGGAGGCTCATTTGGCT 941  
Db 727 LeuAlaLysAlaGluIleGluAspPheSerArgLeuThrSerGlyGlySerPheThrVal 746  
QY 942 TCTGATGTCCTCAAAATGCTCCCATACCTGATCTCTCCACCTGGGCAATACACGACCTG 1001  
Db 747 SerGlyAlaProProGlyAsnHisProSerValLeuProProAsnLysIleThrAspLeu 766  
QY 1002 AAGCGG-----GAAATTCAGCGGGGCGAGTCTCTCATTAATCTGACTTGGACAGCTCT 1052  
Db 767 GluAlaLysPheLysGluAspHis-----IleGlnLeuSerTrpThrAlaPro 782  
QY 1053 GGGGATGATTTATGACCTGGAACAGCTCACAAGTATATCATTCGAATTAAGTACAAGTAT 1112  
Db 783 AlaAsnValLeuAspLysGlyLysAlaAsnSerTyrIleIleArgIleSerLysSerPhe 802  
QY 1113 CTTCATCTCAGACAGCAAGTTCATGAATCTCTCAAGTGAATACCTACTGCTCTCATCCCA 1172  
Db 803 LeuAspLeuGlnLysAspPheAspAsnAlaThrLeuValAsnThrSerSerLeuLysPro 822  
QY 1173 AAGAAAGCAACTCTGAGGAAGTCTTTTGTTTAAACAGAAAAACATTAATCTTTGAAAT 1232  
Db 823 LysGluAlaGlySerAspGluAsnPheGluPheLysProGluProPheArgIleGluAsn 842  
QY 1233 GGCACAGATCTTTTCATTCAGCTGTTTATGAGTGTGTAAGTGTGATCTGAAATCAGAAATA 1292  
Db 843 GlyThrAsnPheThrIleAlaValGlnAlaIleAsnGluAlaAsnLeuThrSerGluVal 862  
QY 1293 TCCACATTCGACAGGATCTTTGTTTATCTCCACAGACTCCGCGCAGAGACACCTAGT 1352  
Db 863 SerAsnIleAlaGlnAlaIleLysPheIlePro-----MetProGluAspSerVal 879  
QY 1353 CCT 1355  
Db 880 Pro 880

RESULT 9  
US-09-623-624-18  
; Sequence 18, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473

Db 648 GluLeuTrpAspAsnGlyAlaGlyAlaAepThrVallysAsnAspGlyIleTyrSerArg 667

Qy 705 TATTTCACACACTTATGACACAGCAATGGTAGATACAGTCTAAAGTGGCGGCTCTGGGAGGA 764

Db 668 TyrPheThrAspTyrArgGlyAsnGlyArgTyrSerLeuLysValHisAlaGluAlaArg 687

Qy 765 GTTAAAGCAGCCAGACGGAGAGTGATACCCACAGAGTGGACACACTGTACATACCTGGC 824

Db 688 AsnAsnThrAlaArgLeuSerLeuArgGlnProGlnAsnLysAlaLeuTyrIleProGly 707

Qy 825 TGGATTGAGAAATCATGAAATACAAATGCAATCCACCAAGACCTCGAAATTAATAAGGATGAT 884

Db 708 TyrIleGluAsnGlyLysIleLeuAsnProProArgProGluVal---LysAspAsp 726

Qy 885 GTTCAACACAAAGCAAGTG---TGTTCACAGACAACATCTCTGGGAGGCTCATTTGTGGCT 941

Db 727 LeuAlaLysAlaGluIleGluAepPheSerArgLeuThrSerGlyGlySerPheThrVal 746

Qy 942 TCTGATGTCCTCAAAATGCTCCCATACCTGATCTCTTCCACCTGGCCAAATCACCGACCTG 1001

Db 747 SerGlyAlaProProGlyAsnHisProSerValLeuProProAsnLysIleIleAepLeu 766

Qy 1002 AAGCGC-----GAAATTCACGGGGCAGCTCTCATTAATCTGACTTCGACAGCTCCT 1052

Db 767 GluAlaLysPheLysGluAepHis-----IleGlnLeuSerIleThrAlaPro 782

Qy 1053 GGGGATGATTATGACCATGGAAACAGCTCAACAAGTATATCATTCGAATAAGTCAAGTATT 1112

Db 783 AlaAsnValLeuAspLysGlyLysAlaAsnSerTyrIleIleArgIleSerLysSerPhe 802

Qy 1113 CTTGATCTCAGACAGCAAGTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCA 1172

Db 803 LeuAspLeuGlnLysAspPheAspAsnAlaThrLeuValAsnThrSerSerLeuLysPro 822

Qy 1173 AAGGAAGCCAACTCTCAGGAAGCTTTTGTGTTTAAACCAAGAAACATTACTTTTGAAT 1232

Db 823 LysGluAlaGlySerAspGluAsnPheGluPheLysProGluProPheArgIleGluAsn 842

Qy 1233 GGCACAGACTTTTTCATTGCTATTTCAGGCTGTTGATAAGTTCGATCTGAAATCAGAAATA 1292

Db 843 GlyThrAsnPheTyrIleAlaValGlnAlaIleAsnGluAlaAsnLeuThrSerGluVal 862

Qy 1293 TCCAACATTGCACAGATATCTTTGTTTATTCCTCCACAGACTCCGCGACAGACACCTAGT 1352

Db 863 SerAsnIleAlaGlnAlaIleLysPheIlePro-----MetProGluAspSerVal 879

Qy 1353 CCT 1355

Db 880 Pro 880

RESULT 10

US-09-193-562D-2

Sequence 2, Application US/09193562D

Patent No. 6309857

GENERAL INFORMATION:

APPLICANT: Pauli, Benedicht U.

TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules

FILE REFERENCE: 18617.0052

CURRENT APPLICATION NUMBER: US/09/193,562D

CURRENT FILING DATE: 1998-11-17

PRIOR APPLICATION NUMBER: US/60/065,922

PRIOR FILING DATE: 1997-11-17

NUMBER OF SEQ ID NOS: 47

SEQ ID NO 2

LENGTH: 905

TYPE: PRMT

ORGANISM: Unknown

FEATURE:

OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells

US-09-193-562D-2

Alignment Scores:

Pred. No.: 4,47e-100 Length: 905  
Score: 1106.00 Matches: 229  
Percent Similarity: 68.75% Conservative: 79  
Best Local Similarity: 51.12% Mismatches: 130  
Query Match: 36.38% Indels: 10  
DB: 4 Gaps: 6

US-09-049-696-19 (1-1683) x US-09-193-562D-2 (1-905)

QY 3 CAAGTGTGCGCATCATCCACAGTCGCTTTGGGGCCCTCTGCGAGCTCAAGACTAGAG 62  
Db 431 ArgSerGlyAlaIleIleHisThrIleAlaLeuGlyProSerAlaAlaLysGluLeuGlu 450  
QY 63 GAGCTGTCACAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAT 122  
Db 451 ThrLysSerAsnMetThrGlyTyArgPhePheAlaAsnLysAspIle-----Thr 468  
QY 123 GGCCTCATTGATGCTTTTGGGGCCCTTTTCATCAGAAATGGAGCTGCTCTCAGGGCTCC 182  
Db 469 GlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIleThrGlnAla 488  
QY 183 ATCCAGCTTGAGTAAGGATTAACCTCCAGACAGCCAGTGGATGATGATGACAGTG 242  
Db 489 IleGlnLeuGluSerLysAlaLeuLysIleThrGlyArgLysArgValAsnGlyThrVal 508  
QY 243 ATCGTGGACAGCACCGTGGGAAAGGACACTTGTGTTCTTATCACCTGGGACACGAGCCT 302  
Db 509 ProValAspSerThrValGlyAsnAspThrPhePheValValThrTrpThrIleGlnLys 528  
QY 303 CCCCAATCTTCTCTGGGATCCCGTGGACAG-----AAGCAAGTGGCTTTGTAGTG 356  
Db 529 ProGluIleValLeuGlnAspProLysGlyLysLysTyThrLysThrSerAspPheLysGlu 548  
QY 357 GACAAA---AACCACAAATGGCTTACCTCCAAATCCAGGCAATGCTTAAGTGGCTACT 413  
Db 549 AspLysLeuAsnIleArgSerAlaArgLeuGlnIleProGlyIleAlaGluThrGlyThr 568  
QY 414 TCGAATACAGTCTG-----CAAGCAAGCTCACAACTTCAGCCCTGACTGTCAG 464  
Db 569 TrpThrTySerLeuLeuAsnAsnHisAlaSerSerGlnMetLeuThrValThrValThr 588  
QY 465 TCCCGTGCCTCCAAATGCTACCTGCTCCAAATACAGTCACTTCCAAACAGCAAGAGAC 524  
Db 589 ThrArgAlaArgSerProThrIleProProValIleAlaThrAlaHisMetSerGlnHis 608  
QY 525 ACAGCAAAATCCCGACCTCTGTGTAGTTTATGCAAAATATTCGCCAAGGACGCTCCCA 584  
Db 609 ThrAlaHisTyProSerProMetIleValTyAlaGlnValSerGlnGlyPheLeuPro 628  
QY 585 ATTCTCAGGGCCAGTCTCACAGCCCTGATGATGATGATGATGATGATGATGATGATGAT 644  
Db 629 ValLeuGlyIleSerValIleAlaIleIleGluThrGluAspGlyHisGlnValThrLeu 648  
QY 645 GAACTACTGATAATGGAGCAGGTGCTGATGCTACTTAAGGATGAGGCTGCTACTCAAGG 704  
Db 649 GluLeuTrpAspAsnGlyAlaGlyArgAspThrValLysAsnAspGlyIleTySerArg 668  
QY 705 TATTTCAACATTATGACAGAAATGGTAGATGATGATGATGATGATGATGATGATGATGAT 764  
Db 669 TyrPheThrAspTyTyArgLysGlyArgTySerLeuLysValHisAlaGlnAlaArg 688  
QY 765 GTTAACGACGACGAGGAGATGATACCCAGCAGGTGGAGCTGTACATACCTGGC 824  
Db 689 AsnAsnThrAlaArgLeuAsnLeuArgGlnProGlnAsnLysValLeuTyThrValProGly 708  
QY 825 TGGATTGAGATGATGATAATGAAATCCACCAAGACCTGAAATTAATTAAGGATGAT 884  
Db 709 TyrValGluAsnGlyLysIleIleLeuAsnProProArgProGluValLysAspAspLeu 728  
QY 885 GTTCAACACAGCAAGTGTGTTTTCAGCAGAACATCTCGGAGGCTCAATTTGCGCTTCT 944  
Db 729 AlaLysAlaLysIleGluAspPheSerArgLeuThrSerGlyGlySerPheValSer 748

QY 945 GATGTC---CCAAATGCTCCCATACCTGATCTCTTCCACCTGGCCAAATCACCACCTG 1001  
Db 749 GlyAlaProProGlyAsnHisProSerValPheProProSerLysIleThrAspLeu 768  
QY 1002 AAGCGGAAATTCACGGGGCAGTCTCAATTAATCTGACTTGGACAGCTCTCTGGGATGAT 1061  
Db 769 GluAlaLysPheLys---GluAspTyIleGlnLeuSerTrpThrAlaProGlyAsnVal 787  
QY 1062 TATGACCATGGACAGCTCACAGTATATATCATTCGAATAGTACAGTATTTCTGATCTC 1121  
Db 788 LeuAspLysGlyLysAlaAsnSerTyIleIleArgIleSerLysSerPheMetAspArg 807  
QY 1122 AGAGCAAGTTCATCAATCAATCTCTTCAAGTGAATACTACTGCTCATCCCAAGGAAGCC 1181  
Db 808 GlnGluAspPheAspAsnAlaThrLeuValAsnThrSerAsnLeuIleProLysGluAla 827  
QY 1182 AACTCTGAGGAAGTCTTTTGTGTTTAAACACAGAAACATTTACTTTTGAATAATGGCACAGAT 1241  
Db 828 GlySerLysGluAsnPheGluPheLysProGluHisPheArgValGluAsnGlyThrLys 847  
QY 1242 CTTTTCATTGCTTATTCAGGCTGTTGATAAGTTCGATCTGAAATCAGAAATATCCACAT 1301  
Db 848 PheTyIleSerValGlnAlaIleAsnGluAlaAsnLeuIleSerGluValSerHisIle 867  
QY 1302 GCACGAGTATCTTTGTTTATTCCT 1325  
Db 868 ValGlnAlaIleLysPheIlePro 875

RESULT 11  
US-09-193-562D-34  
; Sequence 34, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 34  
; LENGTH: 902  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-09-193-562D-34

Alignment Scores:  
Pred. No.: 5,41e-99 Length: 902  
Score: 1095.00 Matches: 237  
Percent Similarity: 66.26% Conservative: 85  
Best Local Similarity: 48.77% Mismatches: 132  
Query Match: 36.02% Indels: 32  
DB: 4 Gaps: 11

US-09-049-696-19 (1-1683) x US-09-193-562D-34 (1-902)

QY 3 CAAGTGTGCGCATCATCCACAGTCGCTTTGGGGCCCTCTGCGAGCTCAAGACTAGAG 62  
Db 430 ArgSerGlyAlaIleIleHisThrIleAlaLeuGlyProSerArgAlaArgGluLeuGlu 449  
QY 63 GAGCTGTCACAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAT 122  
Db 450 ThrLeuSerAspMetThrGlyLysLeuArgPheTyAlaAsnLysAspLeu-----Asn 467  
QY 123 GGCCTCATTGATGCTTTTGGGGCCCTTTTCATCAGAAATGGAGCTGCTCTCAGGGCTCC 182  
Db 468 SerLeuIleAspAlaPheSerArgIleSerSerGlySerValSerGlnAla 487  
QY 183 ATCCAGCTTGAGTAAGGATTAACCTCCAGACAGCCAGTGGATGATGATGATGATGATGAT 242  
Db 488 LeuGlnLeuGluSerLysAlaPheAspValArgAlaGlyAlaTrpIleAsnGlyThrVal 507





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QY 405 GTTGGCAGCTTGGAAATACAGTCTGCAA-----GCAAGCTCACAACCTTGACCCGTG 455
Db 584 ThrGlyIleThrThrTyrSerValArgAsnAsnHisThrLysSerGlnLeuLeuThrVal 603
QY 456 ACTGTCAGCTCCCGTCGTCCTCAATGCTACCTGCTCCAAATACAGTACTCCAAAAGC 515
Db 604 ThrMetThrArgAlaArgSerProThrThrLeuProValIleAlaThrAlaHisSer 623
QY 516 ACAAGGACACAGCAAAATCCCGAGCTCTGGTAGTTTATGCAATATTCGCCAAGA 575
Db 624 MetGlnAsnThrAlaHisTyrProSerProValIleValTyrAlaCysValSerGlnGly 643
QY 576 GCCTCCCAATCTCAGGCGCAGTGTCCAGCCCTGATTGAATCAGTGAATGAAAAACA 635
Db 644 PheLeuProValLeuGlyLeuValThrAlaIleIleGluAsnGluGlyHisGln 663
QY 636 GTTACCTTCGAACTACTGGATATGAGCAGGTGCTGCTACTAAGGATGACGGTTC 695
Db 664 ValThrLeuGluLeuCysAspAsnGlyAlaGlyAlaAspSerValLysAsnAspGlyIle 683
QY 696 TACTCAAGTATTTCAAACTTATGACACGAATGGTAGATACAGTGTAAAGTGGCGGT 755
Db 684 TyrSerArgTyrPheThrAspTyrHisGlyAsnGlyArgTyrSerLeuLysValLeuThr 703
QY 756 CTGGGAGGAGTTAAACGACGACGAGCAGTATACCCAGCAGTGGAGCAGCTGTAC 815
Db 704 GlnAlaArgLysAsnThrAla-----ArgLeuSerGlnGlnGlnAsnLysAlaLeuTyr 721
QY 816 ATACCTGGCTGGATGAGATGAATACAAATACAAATGGAATCCCAAGACCTGAAATTAAT 875
Db 722 ValProArgTyrAlaGluAsnGlyLysIleIleLeuAsnProSerLysProGluValThr 741
QY 876 AAGGATGATGTTCAACACAGCAAGTG----TGTTTCAGCAGAACATCTCCGGGAGCTCA 932
Db 742 ---AspAspValGluGlyAlaGlnThrAspAspPheSerArgLeuThrSerGlyGlySer 760
QY 933 TTTGTGGCTTCATGATGC---CCAAATGCTCCCATCTGCTCTCCACCTGSCCAA 989
Db 761 PheThrValSerGlyValProProAsnGlyAsnHisSerGlnValPheSerProGlyLys 780
QY 990 ATCACCAGCTGAAGCGGAAATTCACGGGGCGCAGTCTCAATTAATCTGACTTGGACAGCT 1049
Db 781 IleValAspLeuGluAlaLysPheGlnGlyAspHis--IleGlnLeuSerTrpThrAla 799
QY 1050 CTGGGGATGATATGACCATGGAACAGCTCACAGTATATCATTCGAATAAGTACAAGT 1109
Db 800 ProGlyLysValLeuAspLysGlyArgAlaGluSerTyrIleIleArgIleSerLysHis 819
QY 1110 ATTCTTGATCTCAGACACAAGTTCATGAATCTCTTCAAGTGAATACTACTCTCTCATC 1169
Db 820 PheLeuAspLeuGlnGluAspPheAspLysAlaLeuIleAsnThrSerGlyLeuIle 839
QY 1170 CCAAAGGAGCCAACTCTCAGGAAGTCTTTTGTGTTTAAACCAAGAAACATTACTTTTGA 1229
Db 840 ProLysGluProGlySerValGluSerPheGluPheLysProGluProSerLysIleGlu 859
QY 1230 ATGGCAGAGATCTTTTCATGCTATTCAGGCTGTGTGATGAAGTCAATCTGAAATCAGAA 1289
Db 860 AsnGlyThrThrPheTyrIleAlaIleGlnAlaIleHisGluAlaAsnValThrSerGlu 879
QY 1290 ATATCAACATTCGACGAGTATCTTTGTTTATCTTCTCCACAGACTCCG 1337
Db 880 ValSerAsnIleAlaGlnAlaThrAsnPheIleProProGlnGluPro 895
```

## RESULT 13

US-09-643-597-357

; Sequence 357, Application US/09643597

; Patent No. 6426072

; GENERAL INFORMATION:

; APPLICANT: Wang, Tongtong

; APPLICANT: Fan, Liqun

; APPLICANT: Kalos, Michael D.

```
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Henderson, Robert A.
; APPLICANT: McNeill, Patricia D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455C11
; CURRENT APPLICATION NUMBER: US/09/643.597
; CURRENT FILING DATE: 2000-08-21
; NUMBER OF SEQ ID NOS: 369
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 357
; LENGTH: 920
; TYPE: PRN
; ORGANISM: Homo sapiens
US-09-643-597-357
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## Alignment Scores:

Pred. No.:	1,76e-89	Length:	920
Score:	998.50	Matches:	212
Percent Similarity:	63.21%	Conservative:	87
Best Local Similarity:	44.82%	Mismatches:	143
Query Match:	32.85%	Indels:	31
DB:	4	Gaps:	10

US-09-049-696-19 (1-1683) x US-09-643-597-357 (1-920)

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QY 6 AGTGTGTCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAG 65
Db 413 SerGlySerThrIleHisSerIleAlaLeuGlySerSerAlaAlaProAsnLeuGlu 432
QY 66 CTGTCAAAATACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACAAATGC 125
Db 433 LeuSerArgLeuThrGlyGlyLeuLysPheValProAspIleSerAsnSerAsnSer 452
QY 126 CTCATTGATGCTTTTGGGGCCCTTCATCAGGAAATGAGTGCTCTCTCAGCGCTCCATC 185
Db 453 MetIleAspAlaPheSerArgIleSerGlyThrGlyAspIlePheGlnGlnHisIle 472
QY 186 CAGCTTTGAGAGTAAGGGATTAAACCTCCAGAACACCCAGTCGATGAATGGCACAGTATC 245
Db 473 GlnLeuGluSerThrGlyLysAsnValLysProHisHisGlnLeuLysAsnThrValThr 492
QY 246 GTGGACAGCACCGTGGGAAAGGACACTTTGTTTCTTATCACCCTGG---ACAACGACGCT 302
Db 493 ValAspAsnThrValGlyAsnAspThrMetPheLeuValThrTrpGlnAlaSerGlyPro 512
QY 303 CCCAAATCTCTCTCGGATCCAGTCGACAGCAGAG---CAAGGTGGCTTTGTAGTG 356
Db 513 ProGluIleIleLeuPheAspProAspGlyArgLysTyrTyrThrAsnAsnPheIleThr 532
QY 357 GACAAAACACCAAATGSCCTTACCTCCAAATCCAGGCAATGCTAAGCTTGGCACTTGG 416
Db 533 AsnLeuThrPheArgThrAlaSerLeuTrpIleProGlyThrAlaLysProGlyHisIleTrp 552
QY 417 AAATACAGTCTG-----CAAGCAAGCTCACAACCTTGACCCCTGACTGTACGCTCC 467
Db 553 ThrTyrThrLeuAsnAsnThrHisHisSerLeuGlnAlaLeuLysValThrValThrSer 572
QY 468 CTGGCGTCCAATGCTACCCCTGCTCCCAATTACAGTACTTCCAAAACGACAAAGACACC 527
Db 573 ArgAlaSerAsnSerAlaValProProAlaThrValGluAlaPheValGluArgAspSer 592
QY 528 AGCAAAATCCCGAGCCCTCTGTAGTATTATGCAAAATATTCGCAAGGAGGCTCCCAATT 587
Db 593 LeuHisPheProHisProValMetIleTyrAlaAsnValLysGlnGlyPheTyrProIle 612
QY 588 CTCAGGGCCAGTGTCCACAGCCCTGATTGAATCAGTGAATGGAAAAACAGTTTACCTTGGAA 647
```

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Db 613 LeuAsnAlaThrValThrAlaThrValGluProGluThrGlyAspProValThrLeuArg 632
QY 648 CTACTGGATAATGAGCAGGTGCTGATGCTACTAAGATCAGCGTGTCTACTCAAGGTAT 707
Db 633 LeuLeuAspGlyAlaGlyAlaAspValIleLeuAsnAspGlyIleTyrSerArgTyr 652
QY 708 TTCACAACTTATGACACGAATGATGATGATGATGATGATGATGATGATGATGATGAT 767
Db 653 PhePheSerPheAlaAlaAsnGlyArgTyrSerLeuLeuValHis-----Val 668
QY 768 AACGACGACGACGAGGAGGTATACCCAGCAG-----AGTGGAGCAGCTGTAC 815
Db 669 AsnHisSerProSerIleSerThrProAlaHisSerIleProGlySerHisAlaMetTyr 688
QY 816 ATACCTGGCTGGATTGAGAAATGATGAATACAAATGGAATCCACAGAGCTGAAATTAAT 875
Db 689 ValProGlyTyrThrAlaAlaAsnGlyAsnIleGlnMetAsnAlaProArgLysSerValGly 708
QY 876 AAGATGATGTTCAACACAGCAAGTGTGTTTCAGCAGAACATCTCTCGGGAGGCTCATTT 935
Db 709 ArgAsnGluGluGluArgLysTrp---GlyPheSerArgValSerSerGlyGlySerPhe 727
QY 936 GTGGCTTCTGATGCTCCCAATGCTCCATACCTGATCTCTCCCACTGCGCAATCACC 995
Db 728 SerValLeuGlyValProAlaGlyProHisProAspValPheProProCysLysIleIle 747
QY 996 GACCTGAAGCGGGAATTCACGGGGCAGCTCATTAATCTGACTGGGACAGCTCTCTGGG 1055
Db 748 AspLeuGluAla---ValLysValGluGluGluLeuThrLeuSerTrpThrAlaProGly 766
QY 1056 GATGATTAATGACATGGAACAGCTCAAGTATATCATTCGAATAAGTACAAAGTATTTT 1115
Db 767 GluAspPheAspGlnGlyGlnAlaThrSerTyrGluIleArgMetSerLysSerLeuGln 786
QY 1116 GATCTCAGACAGAGTTCGAATCTCTCAAGTGAATACTACTGCTCTCATCCCAAG 1175
Db 787 AsnIleGlnAspAspPheAsnAsnAlaIleLeuValAsnThrSerLysArgAsnProGln 806
QY 1176 GAAGCAACTCTGAGGAGTCTTTTGTGTTTAAACACAGAAACATTAATTTGAAATGCG 1235
Db 807 GlnAlaGlyIleArgGluIlePheThrPheSerProGlnIleSerThr-----AsnGly 824
QY 1236 ACAGAT-----CTTTTCAATGCTATTCAG 1259
Db 825 ProGluHisGlnProAsnGlyGluThrHisGluSerHisArgIleTyrValAlaIleArg 844
QY 1260 GCTGTGTAAGTTCGATCGAATCGAATCAGAAATATCCAACTTCACGAGTATCTTTGTTT 1319
Db 845 AlaMetAspArgAsnSerLeuGlnSerAlaValSerAsnIleAlaGlnAlaProLeuPhe 864
QY 1320 ATCTCTCCACAGACTCCGCGACAGACACCTAGTCCTGAT 1358
Db 865 IleProAsnSerAspPro---ValProAlaArgAsp 876
```

## RESULT 14

```
US-09-919-172-87
; Sequence 87, Application US/09919172
; Patent No. 6673545
; GENERAL INFORMATION:
; APPLICANT: Paris, Mary
; APPLICANT: Turner, Christopher M.
; TITLE OF INVENTION: PROSTATE CANCER MARKERS
; FILE REFERENCE: PA-0036 US
; CURRENT APPLICATION NUMBER: US/09/919,172
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/222,469
; NUMBER OF SEQ ID NOS: 102
; SOFTWARE: PERL Program
; SEQ ID NO 87
; LENGTH: 942
; TYPE: PRT
; ORGANISM: Homo sapiens
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## ; FEATURE:

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; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6673545 2733282CD1
US-09-919-172-87
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## Alignment Scores:

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Score: 998.50 Matches: 212
Percent Similarity: 63.21% Conservative: 87
Best Local Similarity: 44.82% Mismatches: 143
Query Match: 32.85% Indels: 31
DB: 4 Gaps: 10
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US-09-049-696-19 (1-1683) x US-09-919-172-87 (1-942)

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Db 455 LeuSerArgLeuThrGlyGlyLeuLysPheValProAspIleSerAsnSerAsnSer 474
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Db 475 MetIleAspAlaPheSerArgIleSerGlyThrGlyAspIlePheGlnGlnHisIle 494
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QY 246 GTGGACAGCACCGTGGGAAAGGACACTTTTGTTCCTTATCACCTGG---ACAACGCAAGCCT 302
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QY 528 AGCAAAATCCCGACGCTCTGCTGTAGTTTATGCAATATTCGCCAAGAGGACCTCCCAATT 587
Db 615 LeuHisPheProHisProValMetIleTyrAlaAsnValLysGlnGlyPheTyrProIle 634
QY 588 CTCAGGGCCAGTGTCCACAGCCTTGATTAATCAGTGAATGAGTGAAGAAACAGTTACCTTGGAA 647
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QY 648 CTACTGGATAATGAGCAGGTGCTGATGCTACTAAGATGACGGTGTCTACTCAAGGTAT 707
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QY 708 TTCACAACTTATGACACGAATGATGATGATGATGATGATGATGATGATGATGATGAT 767
Db 675 PhePheSerPheAlaAlaAsnGlyArgTyrSerLeuLysValHis-----Val 690
QY 768 AACGACGACGACGAGGAGGTATACCCAGCAG-----AGTGGAGCAGCTGTAC 815
Db 691 AsnHisSerProSerIleSerThrProAlaHisSerIleProGlySerHisAlaMetTyr 710
QY 816 ATACCTGGCTGGATTGAGAAATGATGAATACAAATGGAATCCACAGAGCTGAAATTAAT 875
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RESULT 15
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; Sequence 161, Application US/09643597
; Patent No. 6426072
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Henderson, Robert A.
; APPLICANT: McNeill, Patricia D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455C11
; CURRENT APPLICATION NUMBER: US/09/643,597
; CURRENT FILING DATE: 2000-08-21
; NUMBER OF SEQ ID NOS: 369
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 161
; LENGTH: 943
; TIPS: PRT
; ORGANISM: Homo sapien
US-09-643-597-161

Alignment Scores:
Pred. No.: 1,79e-89 Length: 943
Score: 998.50 Matches: 212
Percent Similarity: 63.21% Conservative: 87
Best Local Similarity: 44.82% Mismatches: 143
Query Match: 32.85% Indels: 31
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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: April 24, 2004, 04:05:52 ; Search time 1505.4 Seconds

(without alignments)  
8424.829 Million cell updates/sec

Title: US-09-049-696-18

Perfect score! 2813

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Scoring table: IDENTITY NUC

Gapop 10\_0 , Gapext 1.0

Searched: 2907579 seqs, 2254313464 residues

Total number of hits satisfying chosen parameters: 5815158

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	2812	100.0	3111	9	US-09-823-356-25
3	2812	100.0	3111	9	US-09-981-353-191
4	2812	100.0	3111	15	US-10-235-994-25
5	2812	100.0	3267	9	US-09-764-868-22
6	2807.2	99.8	3007	15	US-10-055-412B-27
7	2807.2	99.8	3311	9	US-09-922-217-1056
8	2807.2	99.8	3311	9	US-09-833-263-1056
9	2807.2	99.8	3311	14	US-10-025-380-1056
10	2807.2	99.8	3311	15	US-10-393-590-11
11	2807.2	99.8	3311	15	US-10-393-590-12
12	2807.2	99.8	3311	15	US-10-393-590-46
13	2807.2	99.8	3311	15	US-10-393-590-47
14	2807.2	99.8	3311	15	US-10-393-567-11

15	2807.2	99.8	3311	15	US-10-393-567-12	Sequence 12, Appl
16	2807.2	99.8	3311	15	US-10-393-567-46	Sequence 46, Appl
17	2807.2	99.8	3311	15	US-10-393-567-47	Sequence 47, Appl
18	2807.2	99.8	3311	15	US-10-394-087-11	Sequence 11, Appl
19	2807.2	99.8	3311	15	US-10-394-087-12	Sequence 12, Appl
20	2807.2	99.8	3311	15	US-10-394-087-46	Sequence 46, Appl
21	2807.2	99.8	3311	15	US-10-394-087-47	Sequence 47, Appl
22	2797.8	99.5	2867	15	US-10-106-698-351	Sequence 351, Appl
23	2743	97.5	2745	15	US-10-270-595-5	Sequence 5, Appl
24	2622.6	93.2	3109	15	US-10-106-698-2111	Sequence 2111, Ap
25	2489.2	88.5	4569	10	US-09-867-034-3	Sequence 3, Appl
26	2489.2	88.5	4569	13	US-10-276-115-3	Sequence 3, Appl
27	1743	62.0	2931	15	US-10-270-595-1	Sequence 1, Appl
28	1512	53.8	1512	16	US-10-305-720-850	Sequence 850, Appl
29	1310.2	46.6	3169	9	US-09-981-353-53	Sequence 53, Appl
30	1310.2	46.6	3169	15	US-10-235-994-15	Sequence 15, Appl
31	1310.2	46.6	3204	15	US-10-345-680-31	Sequence 31, Appl
32	1310.2	46.6	3218	16	US-10-087-080-33	Sequence 33, Appl
33	1308.6	46.5	3043	14	US-10-025-167-16	Sequence 16, Appl
34	1308.6	46.5	3181	14	US-10-025-167-18	Sequence 18, Appl
35	1307.8	46.5	2754	15	US-10-345-680-33	Sequence 33, Appl
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41	1304	46.4	3265	9	US-09-989-732-378	Sequence 378, Appl
42	1304	46.4	3265	9	US-09-991-073-378	Sequence 378, Appl
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ALIGNMENTS

RESULT 1

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; Sequence 1971, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: Patent in Ver. 3.0  
; SEQ ID NO 1971  
; LENGTH: 2854  
; TYPE: DNA  
; ORGANISM: Homo sapiens

US-10-106-698-1971

Query Match	100.0%;	Score 2812;	DB 15;	Length 2854;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 2812;	Conservative	0;	Mismatches	0;
			Indels	0;
			Gaps	0;
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DB	11	GAAATCAGGAGATGTACAGCAATGGGCCCAATTAAGAGTTCTGTGTTTCATCTTGA	70	
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1861 AATATTCGCAAGGAGCTTCCCAATTTCTAGGGCAGTGTCAAGCCCTGATTTGAATCA 1920  
1871 AATATTCGCAAGGAGCTTCCCAATTTCTAGGGCAGTGTCAAGCCCTGATTTGAATCA 1930  
1921 GTGAATGGAAAACAGTTTACCTTGGAACTACTTGGAAATATGGAGAGGTGCTGATGCTACT 1980  
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1981 AAGGATGACGGTGTCTACTCAAGGTATTTTCAAACTTATGACACGAATGGTAGATACAGT 2040  
1991 AAGGATGACGGTGTCTACTCAAGGTATTTTCAAACTTATGACACGAATGGTAGATACAGT 2050  
2041 GTAAAAGTGGGGCTCTGGGAGAGTTAAACGAGCCAGACGAGAGAGTATACCCAGCAG 2100  
2051 GTAAAAGTGGGGCTCTGGGAGAGTTAAACGAGCCAGACGAGAGAGTATACCCAGCAG 2110  
2101 AGTGAGCAGCTGTATACATACCTGGCTGGATGAGAAATGATGAAATACAAATGGAATCCACCA 2170  
2111 AGTGAGCAGCTGTATACATACCTGGCTGGATGAGAAATGATGAAATACAAATGGAATCCACCA 2170  
2161 AGACCTGAAAATTAATAAGGATGATTTCAAACAAGCAAGTGTGTTTACGAGAGAACATCC 2220  
2171 AGACCTGAAAATTAATAAGGATGATTTCAAACAAGCAAGTGTGTTTACGAGAGAACATCC 2230  
2221 TCGGGAGGCTCATTTGTGGCTTCTGATGTCCCAAAATGCTCCCATCTCTCTTCCCA 2280  
2231 TCGGGAGGCTCATTTGTGGCTTCTGATGTCCCAAAATGCTCCCATCTCTCTTCCCA 2290  
2281 CTTGGCCAAATCAACGACCTGAAGCGGAAATTTCAAGGGGCGAGTCTCATTAATCTGACT 2340  
2291 CTTGGCCAAATCAACGACCTGAAGCGGAAATTTCAAGGGGCGAGTCTCATTAATCTGACT 2350



QY 2341 TGGACAGCTCTGGGGATGATTATGACCATGGAAAGCTCAAGATATATCATTCGAATA 2400  
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QY 2351 TGGACAGCTCTGGGGATGATTATGACCATGGAAAGCTCAAGATATATCATTCGAATA 2410  
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QY 2401 AGTACAAAGTATCTTGGATCTCAGAGCAAGTTCAATGAATCTCTTCAAGTGAATCTACT 2460  
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QY 2411 AGTACAAAGTATCTTGGATCTCAGAGCAAGTTCAATGAATCTCTTCAAGTGAATCTACT 2470  
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QY 2461 GCTCTCATCCAAAGGAAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACGAGAAACATT 2520  
DB |||||  
QY 2471 GCTCTCATCCAAAGGAAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACGAGAAACATT 2530  
DB |||||  
QY 2521 ACTTTTGAANAATGGACACAGATCTTTTCATGTCTATTTTCAGGCTGTTGATGAAGTGCATCTG 2580  
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QY 2531 ACTTTTGAANAATGGACACAGATCTTTTCATGTCTATTTTCAGGCTGTTGATGAAGTGCATCTG 2590  
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QY 2581 AAATCAGAAATATCCAAACATGACAGATATCTTTGTTTATTCCTCCACAGACTCCGCCA 2640  
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QY 2591 AAATCAGAAATATCCAAACATGACAGATATCTTTGTTTATTCCTCCACAGACTCCGCCA 2650  
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QY 2641 GAGACACCTAGTCTGATGAACAGTCTGCTCTCTTCTTAATATTCATATCAACAGCACC 2700  
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QY 2701 ATTCTGGCATTCACATTTTAAATAATATGTGGAAGTGGATAGGAACTGACAGCTGTCA 2760  
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QY 2711 ATTCTGGCATTCACATTTTAAATAATATGTGGAAGTGGATAGGAACTGACAGCTGTCA 2770  
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QY 2761 ATAGCTAGGGCTGAATTTTGTGCAGATAAATAAATCAATCATTCCTT 2812  
DB |||||  
QY 2771 ATAGCTAGGGCTGAATTTTGTGCAGATAAATAAATCAATCATTCCTT 2822  
DB |||||

## RESULT 2

US-09-823-356-25  
; Sequence 25, Application US/09823356  
; Patent No. US20010025098A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Kaser, Matthew R.  
; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
; FILE REFERENCE: PF-0489-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823,356  
; CURRENT FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/039,307  
; PRIOR FILING DATE: 1998 March 13  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PERL Program  
; SEQ ID NO 25  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20010025098A1 173775  
US-09-823-356-25

Query Match 100.0%; Score 2812; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2812; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GAAATCAGAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTTCACTTGATT 60  
DB |||||  
10 GAAATCAGAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTTCACTTGATT 69

QY 61 CTTACACCTTCTAGAAAGGGGCCCTGAGTAAATTCATCTCATTTCAGCTGAAACAATATGGCTAT 120  
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QY 70 CTTACACCTTCTAGAAAGGGGCCCTGAGTAAATTCATCTCATTTCAGCTGAAACAATATGGCTAT 129  
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QY 121 GAAGCATTGTCTGTTGCAATCGACCCCAATGTCGCCAGAGATGAAACACTCTATTCAACAA 180  
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QY 850 TGGGAAGTATCCGTTGATTCGAGACCTTTAAGAAAAACCACTCTTATGACACAGACCA 909  
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QY 910 CCAAAATCCCACTCTCTCATTGTCGAGATTGACAAAAGAAATGTTGTGTTTAGTCTTGAC 969  
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QY 970 AAATCTGGAAGCATGGCGACTGGTAAACCGCCTCAATTCGACTGAATCAAGCAGGCCAGCTT 1029  
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QY 1090 GCCCATGTACAAAGTGAATCTCATACAGATAAAGTGGCAGTGACAGGACACACTCGCC 1149  
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1141 AAAAGATTACCTGCAGCAGCTTCAGAGGAGCGTCCATCTGCAGGGGGCTTCGATCGGCA 1200  
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1210 TTTTACTGTGATTAGGAAGAAATATCAACTGATGATCTGAAATTTGTGCTGTGACGAT 1269  
1261 GGGGAGAGCAACACTATAGTGGGTGCTTTACGAGGTCAACAAAGTGGTCCATCATC 1320  
1270 GGGGAGAGCAACACTATAGTGGGTGCTTTACGAGGTCAACAAAGTGGTCCATCATC 1329  
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1390 GGAGGTTTACAGACATATGCTTTCAGATCAAGTTTCAGAAATGGCTCATGATCTTTT 1449  
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1450 GGGGCCCTTTCATCAGGAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTCAGAGTAAG 1509  
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1510 GGATTAACCTCCAGAACAGCCAGTGGATGAATGGACAGTGTGTCGACAGCACCGTG 1569  
1561 GGAAGGACACTTTGTTTCTTATCACTGGGACAGCGAGCTTCCCAATCTTCTCTGG 1620  
1570 GGAAGGACACTTTGTTTCTTATCACTGGGACAGCGAGCTTCCCAATCTTCTCTGG 1629  
1621 GATCCAGTGGACAGAGAGGCTGTGTTGATGGACAAAAACACCAAAATGGCTTAC 1680  
1630 GATCCAGTGGACAGAGAGGCTGTGTTGATGGACAAAAACACCAAAATGGCTTAC 1689  
1681 CTCCTCAATCCAGGAGCTTAAAGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 1740  
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1741 CAAACCTTGACCTGATCTGTCACGTCCTGGTGGTCCAAATGCTACCTGCTCCAAATACA 1800  
1750 CAAACCTTGACCTGATCTGTCACGTCCTGGTGGTCCAAATGCTACCTGCTCCAAATACA 1809  
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1861 AATATTGCGCAAGGAGCTTCCCAATTTCTCAGGGCAGTGTACAGCCCTGATTCGAATCA 1920  
1870 AATATTGCGCAAGGAGCTTCCCAATTTCTCAGGGCAGTGTACAGCCCTGATTCGAATCA 1929  
1921 GTGAATGGAAAAACAGTTACTTGGAACTACTGGTAATGGAGAGGCTGCTGATCTACT 1980  
1930 GTGAATGGAAAAACAGTTACTTGGAACTACTGGTAATGGAGAGGCTGCTGATCTACT 1989  
1981 AAGGATGACGGTGTCTACTCAAGGATTTTCAACCTTATGACACGAAATGGTATGACGT 2040  
1990 AAGGATGACGGTGTCTACTCAAGGATTTTCAACCTTATGACACGAAATGGTATGACGT 2049  
2041 GTAAAGTCCGGGCTCTGGAGGAGTTAACGAGCCAGCAGAGTGTATCCCGAGAG 2100  
2050 GTAAAGTCCGGGCTCTGGAGGAGTTAACGAGCCAGCAGAGTGTATCCCGAGAG 2109  
2101 AGTGGAGCACTGTACATACCTGGCTGGATTGGAATGATGAATCAATGGAAATCCACCA 2160  
2110 AGTGGAGCACTGTACATACCTGGCTGGATTGGAATGATGAATCAATGGAAATCCACCA 2169  
2161 AGACCTGAAATTAATGAAGATGATGTTCAACACAGCAAGTGTGTTTACGAGCAATCC 2220  
2170 AGACCTGAAATTAATGAAGATGATGTTCAACACAGCAAGTGTGTTTACGAGCAATCC 2229  
2221 TCGGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGCTCCCATACCTGATCTCTTCCCA 2280

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2281 CCTGGCCAAATACCGACCTGAAGCGGAAATTCACGGGGCAGTCTCATTAATCTGACT 2340  
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2410 AGTACAAGTATTTCTTGATCTCAGAGACAAAGTTCAATGAATCTCTTCAAGTGAATACT 2469  
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2530 ACTTTGAAAATGGCACAGATCTTTTCAATGCTATTCAGGCTGTTGATAAGTGCATCTG 2589  
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2710 ATTCCTGCAATTCACATTTTAAATATATGGAAGTGGATAGAGAACTGCAGCTGTCA 2769  
2761 ATAGCTAGGGCTGAATTTTGTGTCAGATAAAATAAAATCAATTCATCCCT 2812  
2770 ATAGCTAGGGCTGAATTTTGTGTCAGATAAAATAAAATCAATTCATCCCT 2821

RESULT 3  
US-09-981-353-191  
; Sequence 191, Application US/09981353  
; Patent No. US20020160382A1  
; GENERAL INFORMATION:  
; APPLICANT: Lasek, Amy W.  
; APPLICANT: Jones, David A.  
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
; FILE REFERENCE: PA-0038 US  
; CURRENT APPLICATION NUMBER: US/09/981,353  
; CURRENT FILING DATE: 2001-10-11  
; NUMBER OF SEQ ID NOS: 194  
; SOFTWARE: PERL Program  
; SEQ ID NO 191  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CB1  
US-09-981-353-191

Query Match 100.0%; Score 2812; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2812; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAAATCACAGGAGATGTACAGCAATGGGGCCATTAAAGAGTTCTGTGTTCACTTTGATT 60  
DB 10 GAAATCACAGGAGATGTACAGCAATGGGGCCATTAAAGAGTTCTGTGTTCACTTTGATT 69  
QY 61 CTTCACTTCTTAGAGGGGCCCTCGAGTAATTCATCTATTCAGCTGAAACAAATGGCTAT 120  
DB 70 CTTCACTTCTTAGAGGGGCCCTCGAGTAATTCATCTATTCAGCTGAAACAAATGGCTAT 129

Qy	121	GAAGGCATTTGTCGTTGCAATCGACCCCAATGTGCCAGAAGATGAAACACTCATTTCAACAA	180
Db	130	GAAGGCATTGTCGTTGCAATCGACCCCAATGTGCCAGAAGATGAAACACTCATTTCAACAA	189
Qy	181	ATAAGAGCATGGTGACCCAGGCATCTCTGATCTCTGTTTTCAGAGCTACAGAAAGCGATTT	240
Db	190	ATAAGAGCATGGTGACCCAGGCATCTCTGATCTCTGTTTTCAGAGCTACAGAAAGCGATTT	249
Qy	241	TATTTCAAAATGTTGCGATTTTCATTTCCCTGAAACATGGAAGACAAAGGCTGACTATGTG	300
Db	250	TATTTCAAAATGTTGCGATTTTCATTTCCCTGAAACATGGAAGACAAAGGCTGACTATGTG	309
Qy	301	AGACCAAACTTGAGACCTACAAAAATGCTGATGTTCTGTGTTGCTGAGTCTACTCTCTCCA	360
Db	310	AGACCAAACTTGAGACCTACAAAAATGCTGATGTTCTGTGTTGCTGAGTCTACTCTCTCCA	369
Qy	361	GGTAATGATGAAACCTACACTGACGACATGGGCNACTGTGGAGAAAGGCTGAAGGATC	420
Db	370	GGTAATGATGAAACCTACACTGACGACATGGGCNACTGTGGAGAAAGGCTGAAGGATC	429
Qy	421	CACCTCACTCTCTGATTTTCATTTGCAGGAAAAAAGTTTACTCTGAATATGACCACCAAGGTAGG	480
Db	430	CACCTCACTCTCTGATTTTCATTTGCAGGAAAAAAGTTTACTCTGAATATGACCACCAAGGTAGG	489
Qy	481	GCATTTGTCCATGATGGGCTCATCTACGATGGGGAGTATTTGACGAGTACAATAATGAT	540
Db	490	GCATTTGTCCATGATGGGCTCATCTACGATGGGGAGTATTTGACGAGTACAATAATGAT	549
Qy	541	GAGAAATTTACTTATCCATGGGAAGATACAGCAGTAAGATGTTTCAGCAGGTATTTACT	600
Db	550	GAGAAATTTACTTATCCATGGGAAGATACAGCAGTAAGATGTTTCAGCAGGTATTTACT	609
Qy	601	GGTACAAATGTAGTAAAGAGTGTCAGGAGGCGAGCTGTACACCAAAAGATGCACATTC	660
Db	610	GGTACAAATGTAGTAAAGAGTGTCAGGAGGCGAGCTGTACACCAAAAGATGCACATTC	669
Qy	661	AATAAAGTAAACAGGACTCTATGAAAAAGGATGTGAGTTGTTTCTCCAAATCCCGCCAGACG	720
Db	670	AATAAAGTAAACAGGACTCTATGAAAAAGGATGTGAGTTGTTTCTCCAAATCCCGCCAGACG	729
Qy	721	GAGAAGGCTTCTATAATGTTTGGCAACAATGTTGATTTCTATAGTTGAAATTTCTGTACAGAA	780
Db	730	GAGAAGGCTTCTATAATGTTTGGCAACAATGTTGATTTCTATAGTTGAAATTTCTGTACAGAA	789
Qy	781	CAAAACCAACAAGAAAGCTCCAAAACAGCAAAATCAAAAATGCAATCTCCGAGCACA	840
Db	790	CAAAACCAACAAGAAAGCTCCAAAACAGCAAAATCAAAAATGCAATCTCCGAGCACA	849
Qy	841	TGGGAAGTGATCCGTGATTTCTGAGGACTTTAAGAAAAACCACTCTATGACAAACACAGCCA	900
Db	850	TGGGAAGTGATCCGTGATTTCTGAGGACTTTAAGAAAAACCACTCTATGACAAACACAGCCA	909
Qy	901	CCAAATCCCACCTTCTCATTTGCTGAGATGGACAAAGAAATGTTGTTGTTAGTCTTTGAC	960
Db	910	CCAAATCCCACCTTCTCATTTGCTGAGATGGACAAAGAAATGTTGTTGTTAGTCTTTGAC	969
Qy	961	AAATCTGGAAGCATGGGCATCTGTTAAACCGGCTCAATCGACTGAATCAAGCAGGCGACGCTT	1020
Db	970	AAATCTGGAAGCATGGGCATCTGTTAAACCGGCTCAATCGACTGAATCAAGCAGGCGACGCTT	1029
Qy	1021	TTCTCTGCTGCAGACAGTTGAGCTGGGGTCTGGGTTGGGATGGTGACATTTGACAGTGCT	1080
Db	1030	TTCTCTGCTGCAGACAGTTGAGCTGGGGTCTGGGTTGGGATGGTGACATTTGACAGTGCT	1089
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Db	1090	GCCCATGTACAAAGTGAACCTATACAGATAAAACAGTGGCAGTGAACGGGACACACTCGCC	1149
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Db	1270	GGGGAAGACAACACTATAAGTGGGTGCTTTTAAACGAGCTCAAAACAAAGTGGTGCCATCATC	1329
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Db	1330	CACACAGTCGCTTTTGGGGCCCTCTGACAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACA	1389
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Db	1390	GGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACTAGATGGCTCATTTGATGCTTTT	1449
Qy	1441	GGGGCCCTTTTATCAGGAAATGAGCTGTCTCTCAGCGCTCCATCCAGCTTTGAGAGTAAAG	1500
Db	1450	GGGGCCCTTTTATCAGGAAATGAGCTGTCTCTCAGCGCTCCATCCAGCTTTGAGAGTAAAG	1509
Qy	1501	GGATTAAACCTTCAGAACACGCCAGTGGATGAATGGCAACAGTGTCTGGGACAGCACCGTG	1560
Db	1510	GGATTAAACCTTCAGAACACGCCAGTGGATGAATGGCAACAGTGTCTGGGACAGCACCGTG	1569
Qy	1561	GGAAAGAGACACTTTTGTTCATTATCACTTGACAAACGCCAGCTCCCAAAATCTTCTCTGG	1620
Db	1570	GGAAAGAGACACTTTTGTTCATTATCACTTGACAAACGCCAGCTCCCAAAATCTTCTCTGG	1629
Qy	1621	GATCCAGTCGACAGAGCAAGTGGCTTTGTAGTGGACAAAACACCAAAATGGCCTAC	1680
Db	1630	GATCCAGTCGACAGAGCAAGTGGCTTTGTAGTGGACAAAACACCAAAATGGCCTAC	1689
Qy	1681	CTCCAAATCCAGGCATTGCTAAAGGTTGGCACTTTGAAATAACAGTCTGCAAGCAAGCTCA	1740
Db	1690	CTCCAAATCCAGGCATTGCTAAAGTGGCACTTTGAAATAACAGTCTGCAAGCAAGCTCA	1749
Qy	1741	CAAACTTGCACCTGACTGTCAAGTCCGCTGCTCAATGCTACCTGCCTCCAAATTACA	1800
Db	1750	CAAACTTGCACCTGACTGTCAAGTCCGCTGCTCAATGCTACCTGCCTCCAAATTACA	1809
Qy	1801	GTGACTTCCAAAACGACAGGACACAGCAAAATTTCCAGCCCTCTGGTAGTTTATGCA	1860
Db	1810	GTGACTTCCAAAACGACAGGACACAGCAAAATTTCCAGCCCTCTGGTAGTTTATGCA	1869
Qy	1861	AATATTGCGCAAGAGCCTCCCAATTTCTCAGGGCCAGTGTCAAGCCCTGATTTGAATCA	1920
Db	1870	AATATTGCGCAAGAGCCTCCCAATTTCTCAGGGCCAGTGTCAAGCCCTGATTTGAATCA	1929
Qy	1921	GTGAATGGAAAAACAGTTTACCTTTGGAACTACTCGATAATGAGCAGGTGCTGATCTACT	1980
Db	1930	GTGAATGGAAAAACAGTTTACCTTTGGAACTACTCGATAATGAGCAGGTGCTGATCTACT	1989
Qy	1981	AAGGATGACCGTGTCTACTCAAGGTATTTCAAACTTATGACACGAATGTFAGATACAGT	2040
Db	1990	AAGGATGACCGTGTCTACTCAAGGTATTTCAAACTTATGACACGAATGTFAGATACAGT	2049
Qy	2041	GTAAAGTCGGGCTCTGGAGAGAGTTTAAACGACGACAGCGAGAGTGATACCCACAGCAG	2100
Db	2050	GTAAAGTCGGGCTCTGGAGAGAGTTTAAACGACGACAGCGAGAGTGATACCCACAGCAG	2109
Qy	2101	AGTGGAGCACTGTACATACCTGCTGGATTGAGAAATGAGAAATACAATGGAAATCCACCA	2160
Db	2110	AGTGGAGCACTGTACATACCTGCTGGATTGAGAAATGAGAAATACAATGGAAATCCACCA	2169
Qy	2161	AGACCTGAAATTAATAAGGATGATTTCAACACAGCAAGTGTGTTTCAGCAGAAATCC	2220
Db	2170	AGACCTGAAATTAATAAGGATGATTTCAACACAGCAAGTGTGTTTCAGCAGAAATCC	2229
Qy	2221	TCGGGAGGCTCATTTGTGGCTTCTGATGTGCCAAATGCTCCCACTACTGATCTCTTCCCA	2280
Db	2230	TCGGGAGGCTCATTTGTGGCTTCTGATGTGCCAAATGCTCCCACTACTGATCTCTTCCCA	2289
Qy	2281	CCTGGGCCAAATCACCACTGAAGGGGGAAATTTACGGGGGGCAGTCTCAATTAATCTGACT	2340

[illegible]

## RESULT 4

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US-10-235-994-25
; Sequence 25, Application US/10235994
; Publication No. US20030101002A1
; GENERAL INFORMATION:
; APPLICANT: Bartha, Gabor
; APPLICANT: Walker, Michael
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS
; FILE REFERENCE: IC17P012
; CURRENT APPLICATION NUMBER: US/10/235,994
; CURRENT FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: US/10/003,608
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,081
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 3111
; TYPE: DNA
; ORGANISM: Human
US-10-235-994-25

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	Query Match	100.0%	Score 2812;	DB 15;	Length 3111;
	Best Local Similarity	100.0%;	Pred. No. 0;		
	Matches 2812;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0
Qy	1	GAATCACAGGAGGATGTACAGCAATGGGGCCATTAAAGAGTTCGTGTTCATCTTGATT	60		
Db	10	GAATCACAGGAGGATGTACAGCAATGGGGCCATTAAAGAGTTCGTGTTCATCTTGATT	69		
Qy	61	CTTCACCTTCTAGAGGGGCCCTGAGTAATTCACTCATTCAGCTGAACAACAATGGCTAT	120		
Db	70	CTTCACCTTCTAGAGGGGCCCTGAGTAATTCACTCATTCAGCTGAACAACAATGGCTAT	129		
Qy	121	GAAGGCATTGTGTTGCAATCGACCCCAATGTGCCAGAAGATGAAACACTCATTCACAA	180		

1261 GGGGAAGACAAACACTATATAAGTGGTGGCTTTTAACGAGGTCAAAACAAAGTGGTGCATCATC 1320  
1270 GGGGAAGACAAACACTATATAAGTGGTGGCTTTTAACGAGGTCAAAACAAAGTGGTGCATCATC 1329  
1321 CACACAGTCGCTTTGGGGCCCTCTGAGCTCAAGAACTAGAGAGCTGTCCAAAATGACA 1380  
1330 CACACAGTCGCTTTGGGGCCCTCTGAGCTCAAGAACTAGAGAGCTGTCCAAAATGACA 1389  
1381 GGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAAGAACTAGAGAGCTGTCCAAAATGACA 1440  
1390 GGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAAGAACTAGAGAGCTGTCCAAAATGACA 1449  
1441 GGGGCCCTTTTCAACAGAAATGAGAGCTGTCTCAGCGTCCAACTCAGCTTGAAGTAAG 1500  
1450 GGGGCCCTTTTCAACAGAAATGAGAGCTGTCTCAGCGTCCAACTCAGCTTGAAGTAAG 1509  
1501 GGAATTAACCTCCAGAACAGCAGTGGATGAAATGGACAGTGAATGGACAGCAGCCGTTG 1560  
1510 GGAATTAACCTCCAGAACAGCAGTGGATGAAATGGACAGTGAATGGACAGCAGCCGTTG 1569  
1561 GGAAGGACACTTTGTTTCTTATCACTGACCAACGAGCCTCCCAAAATCCTTCTCTGG 1620  
1570 GGAAGGACACTTTGTTTCTTATCACTGACCAACGAGCCTCCCAAAATCCTTCTCTGG 1629  
1621 GATCCAGTGGACAGAAAGTGGCTTTGTAGTGACAAACAAACCAAAATGGCCTAC 1680  
1630 GATCCAGTGGACAGAAAGTGGCTTTGTAGTGACAAACAAACCAAAATGGCCTAC 1689  
1681 CTCCAAATCCAGGCAATCTAAGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 1740  
1690 CTCCAAATCCAGGCAATCTAAGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 1749  
1741 CAAACCTTGACCTGACTGCTACGCTCCGTCGCTCAATGCTACCTGCTCCAAATTACA 1800  
1750 CAAACCTTGACCTGACTGCTACGCTCCGTCGCTCAATGCTACCTGCTCCAAATTACA 1809  
1801 GTGACTTCCAAAACGAAACAGGACACCAAGCAAAATCCCGAGCCTCTGGTAGTTATGCA 1860  
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1861 AATATTCGCAAGGAGCCTCCCAATCTCAGGCGCAGTGTACAGCCTGATGATCA 1920  
1870 AATATTCGCAAGGAGCCTCCCAATCTCAGGCGCAGTGTACAGCCTGATGATCA 1929  
1921 GTGAATGGAAAACAGTTACCTTTGGAACTACTGATAATGGAGCAGTGTGATGCTACT 1980  
1930 GTGAATGGAAAACAGTTACCTTTGGAACTACTGATAATGGAGCAGTGTGATGCTACT 1989  
1981 AAGGATGACGGTGTCTACTCAAGGTATTTTACAACTTATGACACGAAATGGTAGATACGT 2040  
1990 AAGGATGACGGTGTCTACTCAAGGTATTTTACAACTTATGACACGAAATGGTAGATACGT 2049  
2041 GTAAAAGTCGGGCTCTGGAGAGTTAAGCAGCAGAGGAGTGTATCCCGAGCAG 2100  
2050 GTAAAAGTCGGGCTCTGGAGAGTTAAGCAGCAGAGGAGTGTATCCCGAGCAG 2109  
2101 AGTGGAGCACTGTACATACCTGCTGATTTGGAATGATGAATCAATGGAAATCCACCA 2160  
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2161 AGACCTTGAATTAATTAAGGATGATTTTCAACCAAGCAAGTGTGTTTTCAGCAGAAATCC 2220  
2170 AGACCTTGAATTAATTAAGGATGATTTTCAACCAAGCAAGTGTGTTTTCAGCAGAAATCC 2229  
2221 TCGGAGGCTCATTTGTGGCTTGTATGTCCTCCAAATGCTCCCAATCTCTTTCCCA 2280  
2230 TCGGAGGCTCATTTGTGGCTTGTATGTCCTCCAAATGCTCCCAATCTCTTTCCCA 2289  
2281 CTGCGCAAAATCACCGACCTGAGGCGGAAATTCAGGGGGAGTCTCATTAATCTGACT 2340  
2290 CTGCGCAAAATCACCGACCTGAGGCGGAAATTCAGGGGGAGTCTCATTAATCTGACT 2349

2341 TGGACAGCTCCTGGGATGATTATGACCATGGAACAGCTCACAGTATATATCATTCGAATA 2400  
2350 TGGACAGCTCCTGGGATGATTATGACCATGGAACAGCTCACAGTATATATCATTCGAATA 2409  
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2641 GAGACACCTAGTCTCTGATGAAACGTCCTGCTCTTGTCTTAATATTCATATCAACAGCACC 2700  
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2710 ATTCTGGCAATTCACATTTTAAATAATATGTTGAAGTGGATAGGAACTGCAAGCTGTCA 2769  
2761 ATAGCTCAGGCTGAATTTTGTGATGATAAATAAATAAATCATTCATCTT 2812  
2770 ATAGCTCAGGCTGAATTTTGTGATGATAAATAAATAAATCATTCATCTT 2821

## RESULT 5

US-09-764-868-22

; Sequence 22, Application US/09764868

; Patent No. US2002016911A1

; GENERAL INFORMATION:

; APPLICANT: Rosen et al.

; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies

; FILE REFERENCE: PT232

; CURRENT APPLICATION NUMBER: US/09/764,868

; CURRENT FILING DATE: 2001-01-17

; Prior application data removed - refer to PALM or file wrapper

; NUMBER OF SEQ ID NOS: 1510

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 22

; LENGTH: 3267

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-764-868-22

Query Match 100.0%; Score 2812; DB 9; Length 3267;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 2812; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAAATCACAGGAGATGTACAGCAATGGGGCCCAATTTAAGAGTTCTGTGTTCACTTTGATT 60  
DB 11 GAATCACAGGAGATGTACAGCAATGGGGCCCAATTTAAGAGTTCTGTGTTCACTTTGATT 70  
QY 61 CTTACCTTTTAAAGGGCCCTCGAGTAATCACTCAATTCAGCTGAACCAATGGCTAT 120  
DB 71 CTTACCTTTTAAAGGGCCCTCGAGTAATCACTCAATTCAGCTGAACCAATGGCTAT 130  
QY 121 GAAGGCAATGCTGTTCATCGATCGACCCCAATGTCAGAGATCAACACTCAATCAACAA 180  
DB 131 GAAGGCAATGCTGTTCATCGATCGACCCCAATGTCAGAGATCAACACTCAATCAACAA 190  
QY 181 ATAAAGGACATGCTGACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT 240  
DB 191 ATAAAGGACATGCTGACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT 250  
QY 241 TATTTCAAAATGTTGGCCATTTTGGATTTCTGAAACATGGAAGCAAAAGGCTGACTATGTG 300

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2101 AGTGGAGCACTGTACATACCTGGCTGGATGAGATGATGAATCAATGGAATCCACCA 2160  
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2161 AGACCTGAAAATTAATAAGGATGATGTTCAAACAGCAAGTGTGTTTCAGCAGAAACATCC 2220  
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2221 TCGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGTCCCATACCTGATCTCTTCCCA 2280  
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QY 2461 GCTCTCATCCAAAGGAGGCCAACTCTGAGGAAGTCTTTTGTGTTAAACAGAGAAACATT 2520
D 2471 GCTCTCATCCAAAGGAGGCCAACTCTGAGGAAGTCTTTTGTGTTAAACAGAGAAACATT 2530
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D 2531 ACTTTTGAATGGGACAGATCTTTTCATGCTATTCAGGCTGTTGATAGGCTCGATCTG 2590
QY 2581 AAATCAGAAATATCAACATTCGACGAGTATCTTTGTTTATTCCTCCACAGACTCGGCCA 2640
D 2591 AAATCAGAAATATCAACATTCGACGAGTATCTTTGTTTATTCCTCCACAGACTCGGCCA 2650
QY 2641 GAGACACCTAGTCTGATGAACAGTCTGCTCTGTCCTTAATATTCATATCAACAGCACC 2700
D 2651 GAGACACCTAGTCTGATGAACAGTCTGCTCTGTCCTTAATATTCATATCAACAGCACC 2710
QY 2701 ATTCTGCGCATTCACATTTTAAATATATGGAAGTATAGGAGAACTGAGCTGTCA 2760
D 2711 ATTCTGCGCATTCACATTTTAAATATATGGAAGTATAGGAGAACTGAGCTGTCA 2770
QY 2761 ATAGCCTAGGCTGAATTTTGTGATGAATAAATAAATCAATTCATCTT 2812
D 2771 ATAGCCTAGGCTGAATTTTGTGATGAATAAATAAATCAATTCATCTT 2822

RESULT 6
US-10-055-412B-27
; Sequence 27, Application US/10055412B
; Publication No. US20030059861A1
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0058
; CURRENT APPLICATION NUMBER: US/10/055,412B
; CURRENT FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: US/09/193,562
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 27
; LENGTH: 3007
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-055-412B-27

Query Match 99.8%; Score 2807.2; DB 15; Length 3007;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2809; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GAAATCAGAGGAGATGTACAGCAATGGGGCCATTTAAGAGTCTGTGTTCACTTGATT 60
D 23 GGAATCAGAGGAGATGTACAGCAATGGGGCCATTTAAGAGTCTGTGTTCACTTGATT 82
QY 61 CTTTCACTTCTAGAGGGGCCCTGAGTAATTCATCTCAGCTGAACAACTAGGCTAT 120
D 83 CTTTCACTTCTAGAGGGGCCCTGAGTAATTCATCTCAGCTGAACAACTAGGCTAT 142
QY 121 GAAGGCATTTGCTTGCAATCGAACCCCAATGTGCCAGAGATGAACACTATTCACAA 180
D 143 GAAGGCATTTGCTTGCAATCGAACCCCAATGTGCCAGAGATGAACACTATTCACAA 202
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D 203 ATAAGGACATGGTGAACCCAGGATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT 262
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D 263 TATTTTCAAAAATGTTGCCATTTTGTATCTCTGAAAATGGAAGCAAGGCTGACTATGTG 322
QY 301 AGACCAAACTTTGAGACCTTACAAAATGCTGATGTTCTGGTGTGAGTCTACTCTCCA 360
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D 383 GGTAAATGATGAACCCCTTACACTGAGCAGATGGGCAACTGTGGAGAGAAAGGTGAAAGGATC 442
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D 443 CACCTCAGTCTGATTTTCAATTCAGGAAAGTTAGCTGAAATATATGGAACAACAAGTAGG 502
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D 563 GAGAAATTTCTACTTATCCAAATGGAAGATATCAAGCAGATGAAGATGTTTCAGCAGGTATTACT 622
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D 623 GGTACAAATGTAGTAAAGAAAGTGT CAGGGAGCAGCTGT TACACCAAAAAGATGCAATTTC 682
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D 863 TGGGAAGTATCCGCTGATTTCTGAGGACTTTTAAGAAAACCACTCTCTATGACACACAGCCA 922
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D 983 AAATCTGGAAGCATGGCGACTGTTAAACCGCTCAATCGACTGAATCAAGCAGGCCAGCTT 1042
QY 1021 TTCCTGTGCAGACAGTTGAGCTGGGGTCTCTGGGTTGGGATGGTGAATTTGACAGTGT 1080
D 1043 TTCCTGTGCAGACAGTTGAGCTGGGGTCTCTGGGTTGGGATGGTGAATTTGACAGTGT 1102
QY 1081 GCGCATGTACAAAGTGAACCTCATACAGATAAAACAGTGGCAGTGACAGGGACACACTCGCC 1140
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D 1223 TTTTACTGTGATTAGGAAGAAATATCCAACTGATGGAATCTGAAATTTGTGCTGTGACGGAT 1282
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D 1283 GGGGAAGCAACACATATAGTGGGTCTTTTACAGGGTCAAAACAAAGTGTGTCATCATC 1342
QY 1321 CACACAGTCTGCTTTGGGGCCCTCTCAGCTCAAGAACTAGAGAGCTGTCCAAAATGACA 1380
D 1343 CACACAGTCTGCTTTGGGGCCCTCTCAGCTCAAGAACTAGAGAGCTGTCCAAAATGACA 1402
QY 1381 GGAGGTTTACAGACATATGCTTTCAGATCAAGTTTCAAGAAATGGGCTCATTTGATGCTTTT 1440
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Db 1403 GGAGGTTTACAGACATATGCTTTTCAGATCAAGTTTCAGAACAAATGGCTCATTTGATGCTTTT 1462  
Qy 1441 GGGGCCCCCTTTCATCAGGAATGAGAGTGTCTCTCAGCGCTCCATCCAGCTTCAGAGTAGAG 1500  
Db 1463 GGGGCCCCCTTTCATCAGGAATGAGAGTGTCTCTCAGCGCTCCATCCAGCTTCAGAGTAGAG 1522  
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Db 1523 GGATTAACCCCTCCAGAACAGCCAGTGGATGAATGGCAGACAGTGTGATGGACAGCACCCTG 1582  
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Db 1583 GGAAGGACACCTTTGTTTCTTATCACCCTGGACAAAGCAGCCTCCCAAAATCCTTCTCTGG 1642  
Qy 1621 GATCCAGTGGACAGAACGAGTGGCTTTGTAGTGGACAAACACCAAAATGSCCTAC 1680  
Db 1643 GATCCAGTGGACAGAACGAGTGGCTTTGTAGTGGACAAACACCAAAATGSCCTAC 1702  
Qy 1681 CTCCAAATCCCAAGGATTCCTAAGGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 1740  
Db 1703 CTCCAAATCCCAAGGATTCCTAAGGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 1762  
Qy 1741 CAAACCTTGACCTGACTGTCTACGTCCTCGTCCGTCGAATGCTACCTGCTCCAAATTA 1800  
Db 1763 CAAACCTTGACCTGACTGTCTACGTCCTCGTCCGTCGAATGCTACCTGCTCCAAATTA 1822  
Qy 1801 GTGACTTCCAAACGAAACGACACCAAGCAATTTCCCGAGCCCTCTGGTAGTTTATGCA 1860  
Db 1823 GTGACTTCCAAACGAAACGACACCAAGCAATTTCCCGAGCCCTCTGGTAGTTTATGCA 1882  
Qy 1861 AATATTTCGCAAGGAGCTCCCAATTTCTCAGGCGCAGTGTACAGCCCTGATTCGAATCA 1920  
Db 1883 AATATTTCGCAAGGAGCTCCCAATTTCTCAGGCGCAGTGTACAGCCCTGATTCGAATCA 1942  
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Db 1943 GTGAATGGAACCAAGTACCTTGGAACTATCGGATAATGGAGCGGTCTGATCTACT 2002  
Qy 1981 RAGGATGCGGTCTACTCAGGTTATTCACAACTTATGACACGAAATGGTAGATACAGT 2040  
Db 2003 AAGGATGCGGTCTACTCAGGTTATTCACAACTTATGACACGAAATGGTAGATACAGT 2062  
Qy 2041 GTAAAGTTCGGGCTCTGGAGAGTTAAGCAGCAGCAGAGAGTATACCCAGCAG 2100  
Db 2063 GTAAAGTTCGGGCTCTGGAGAGTTAAGCAGCAGCAGAGAGTATACCCAGCAG 2122  
Qy 2101 AGTGAGCAGCTGATACATCTGGCTGGATGAGATGAGAAATCAATGGAATCCACCA 2160  
Db 2123 AGTGAGCAGCTGATACATCTGGCTGGATGAGATGAGAAATCAATGGAATCCACCA 2182  
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Qy 2221 TCGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGCTCCCATACCTGATCTCTTCCCA 2280  
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Db 2303 CTTGCGCAAAATCACCGACTGAAGCGGAAATTCACGGGGGAGTCTCATTAATCTGACT 2362  
Qy 2341 TGGACAGCTCTCGGGATGATTAATGACCATGAAAGCTCACAAGTATATCATTTGGAATA 2400  
Db 2363 TGGACAGCTCTCGGGATGATTAATGACCATGAAAGCTCACAAGTATATCATTTGGAATA 2422  
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Qy 2461 GCTCTCATCCCAAGGAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACGAGAAACATTT 2520  
Db 2483 GCTCTCATCCCAAGGAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACGAGAAACATTT 2542

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Db 2543 ACTTTTGAATAATGGCACAGATCTTTTTCATTTGCTATTTCAGGCTGTTGATAAGGTCGATCTG 2602  
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Qy 2761 ATAGCTAGGCTGAATTTTGTTCAGATAATAATAATAATCAATTCATCTCTTT 2812  
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## RESULT 7

US-09-922-217-1056  
; Sequence 1056, Application US/09922217  
; Patent No. US20020076414A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Fongcong  
; APPLICANT: Jiang, Yudi  
; APPLICANT: Smith, Carole Lynn  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; FILE REFERENCE: 210121.471C13  
; CURRENT APPLICATION NUMBER: US/09/922,217  
; CURRENT FILING DATE: 2001-08-03  
; NUMBER OF SEQ ID NOS: 1124  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1056  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-922-217-1056

Query Match 99.8%; Score 2807.2; DB 9; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 2809; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 GAAATCAGGAGATGTACAGCAATGGGGCCATTTAGAGTTCTGTGTTTCATCTTGATT 60  
Db 328 GGAATCAGGAGATGTACAGCAATGGGGCCATTTAGAGTTCTGTGTTTCATCTTGATT 387  
Qy 61 CTTACACCTTTAGAGGGGCTTGTGATTAATTCATCTCATTTCAGCTGAAACAACTGGCTAT 120  
Db 398 CTTACACCTTTAGAGGGGCTTGTGATTAATTCATCTCATTTCAGCTGAAACAACTGGCTAT 447  
Qy 121 GAAGCATTGTGTTGCAATCGACCCCAATGTGCCAGAGATGAAACACTCTTCAACAA 180  
Db 448 GAAGCATTGTGTTGCAATCGACCCCAATGTGCCAGAGATGAAACACTCTTCAACAA 507  
Qy 181 ATRAGGACATGGTCACCCAGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT 240  
Db 508 ATRAGGACATGGTCACCCAGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT 567  
Qy 241 TATTTCAAAAATGTTGCCATTTTGATTTCTCTGAAACATGGAAGCAAAAGGCTGACTATGTG 300



	Db	 TATTTCAAAAATGTTGGCCATTTTGATTCTCTGAACATAGGAAGACAAGAAGGTGCATATGTG	627
	Qy	 AGACC AAAA CT TGAGACCTC AAAAA T GCGAT GTTCTTGTTGCTGAGTCTTACTTCCTCCA	360
	Db	 AG ACC AAAA CT TGAGACCTC AAAAA T GCGAT GTTCTTGTTGCTGAGTCTTACTTCCTCCA	687
	Qy	 GGTA ATGATGA AACCTTACCTGAGCAGATGGGCCAACTGTGGAGAGAAAGGTGAAAGCATC	420
	Db	 GGTA ATGATGA AACCTTACCTGAGCAGATGGGCCAACTGTGGAGAGAAAGGTGAAAGCATC	747
	Qy	 CACCTCACTCCTGATTTTCATTTG CAGGAAAAAGTTAGCTGAATATGACACCAAGGTAGG	480
	Db	 CACCTCACTCCTGATTTTCATTTG CAGGAAAAAGTTAGCTGAATATGACACCAAGGTAGG	807
	Qy	 GCATTTGTC CATGAGTGGGCTCATCTACGATGGGGAGTATTTGACGAGTAGTACAATAATGAT	540
	Db	 GCATTTGTC CATGAGTGGGCTCATCTACGATGGGGAGTATTTGACGAGTAGTACAATAATGAT	867
	Qy	 GAGAAATTCCTATTTATCCAA TTGGAAGAAATCAAAGCAGTAAGATGTTTCAGCAGGTATTACT	600
	Db	 GAGAAATTCCTATTTATCCAA TTGGAAGAAATCAAAGCAGTAAGATGTTTCAGCAGGTATTACT	927
	Qy	 GGTACAAATGTAGTAAGAA GTGTCAGGAGGCGAGCTGTTACACCAAAAAGATGCACATTC	660
	Db	 GGTACAAATGTAGTAAGAA GTGTCAGGAGGCGAGCTGTTACACCAAAAAGATGCACATTC	987
	Qy	 AATAAAGTACAGGACTCTATGAAA AGGATGTGAGTTGTTCTCCAATCCC GCCAGACG	720
	Db	 AATAAAGTACAGGACTCTATGAAA AGGATGTGAGTTGTTCTCCAATCCC GCCAGACG	1047
	Qy	 GAGAAGCTTCTATAATGTTTGCACAACTGTTGATTTCTATAGTTGAATTTCTGTACAGAA	780
	Db	 GAGAAGCTTCTATAATGTTTGCACAACTGTTGATTTCTATAGTTGAATTTCTGTACAGAA	1107
	Qy	 CAAAA CAACA AAGAGAGCTCCAAA CAAGCAAAAATCAA AAATGCAATCTCCGAAAGCACA	840
	Db	 CAAAA CAACA AAGAGAGCTCCAAA CAAGCAAAAATCAA AAATGCAATCTCCGAAAGCACA	1167
	Qy	 TGGAAGTGTACGTTGAGTCTTGAGGACTTTAAGAA AACCACTCCTATGACAAACACAGCCA	900
	Db	 TGGAAGTGTACGTTGAGTCTTGAGGACTTTAAGAA AACCACTCCTATGACAAACACAGCCA	1227
	Qy	 CCAAATCCCCACCTTCTCATTTGCTGCAGATGGGACAAAGAAATTTGTGTTTAGTTCCTTGAC	960
	Db	 CCAAATCCCCACCTTCTCATTTGCTGCAGATTTGACAAAGAAATTTGTGTTTAGTTCCTTGAC	1287
	Qy	 AAATCTGGAAGCATGGCGATCTGTTAACCGGCTCAATCGACTGAATCAAGCAGCGCCAGCTT	1020
	Db	 AAATCTGGAAGCATGGCGATCTGTTAACCGGCTCAATCGACTGAATCAAGCAGCGCCAGCTT	1347
	Qy	 TTCTCTGCTGCAGACAGTTGAGCTGGGGTCTGGGTTGGGATGGTGACATTTGACAGTGCT	1080
	Db	 TTCTCTGCTGCAGACAGTTGAGCTGGGGTCTGGGTTGGGATGGTGACATTTGACAGTGCT	1407
	Qy	 GCCCATGTACAAAGTGAATCATACAGATAAAACAGTGGCAGTGAACGGGACACACTCGCC	1140
	Db	 GCCCATGTACAAAGTGAATCATACAGATAAAACAGTGGCAGTGAACGGGACACACTCGCC	1467
	Qy	 AAAAGATTACTGCAGCAGCTTCAAGGAGGACGTTCCATCTGCAGCGGGCTTCGATCGGCA	1200
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	Qy	 TTTTACTGTGATTAGGAANAATCCNACTGATGGATCTGAATTTGCTGCTGACGGAT	1260
	Db	 TTTTACTGTGATTAGGAANAATCCNACTGATGGATCTGAATTTGCTGCTGACGGAT	1587
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	Db	 GGGGAAGACAACACTATAAGTGGGTGCTTTAAACGAGGTCAAAACAAAGTGGTGCATCATC	1647
	Qy	 CACACAGTCGCTTTGGGGCCCTCTGCAAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACA	1380





Db 508 ATAAAGGACATGGTGAACCCAGGCATCTCTGTATCTGTATTGAAGCTACAGGAAGCGATT 567  
QY 241 TATTTTCAAAATGTTGCCATTTTGGATCTCTGAAACATGGAACACAAAGCGTGACTATGTG 300  
Db 568 TATTTTCAAAATGTTGCCATTTTGGATCTCTGAAACATGGAACACAAAGCGTGACTATGTG 627  
QY 301 AGACCAAAATTTGAGACCTTACAAAATGCTGATGTTCTGGTTGCTGAGTCTACTCCTCCA 360  
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Db 688 GGTAAATGTAACCTTACACTGAGCAGATGGCAACTGTGGAGAGAAGGGTGAAGGATC 747  
QY 421 CACCTCAGTCTCTGATTTCAATTCAGGAAAAGATTTAGCTGAATATGGACCAACAGGTAGG 480  
Db 748 CACCTCAGTCTCTGATTTCAATTCAGGAAAAGATTTAGCTGAATATGGACCAACAGGTAGG 807  
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QY 541 GAGAAATTTCTACTTATCCAAATGGAAGAAATACAAAGCAGTAAGATGTTTCAGCAGGTATTACT 600  
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QY 901 CCAATCCCACTTCTCTATTTGCTGCAGATTTGACAAAGAAATTTGTGTTTGTCTTGTGAC 960  
Db 1228 CCAATCCCACTTCTCTATTTGCTGCAGATTTGACAAAGAAATTTGTGTTTGTCTTGTGAC 1287  
QY 961 AAATCTGGAAGCATGGGAGCTGGTAAACCGCTCAATCGACTGAATCAAGCAGGCGCAGCTT 1020  
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QY 1381 GGAGGTTTACAGACATATGCTTTCAGATCAAGTTTCAGAAACAATGGGCTCATTTGATGCTTTT 1440  
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QY 1501 GGATTAACCCCTCCAGAACAGCCAGTGGATGAATGACACAGTGAATGCTGGACAGCAGCCG 1560  
Db 1828 GGATTAACCCCTCCAGAACAGCCAGTGGATGAATGACACAGTGAATGCTGGACAGCAGCCG 1887  
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Db 1888 GGAAGGACACATTTGTTTCTTATCACCTGGGCAACGCGAGCTCCCAATCTCTCTCGG 1947  
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Db 1948 GATCCAGTGGACAGAAAGGTGGCTTTGTAGTGGCAAAAACACCAAAATGGCCTAC 2007  
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Db 2248 GTGAATGAAAAACAGTTTACCTTGGAACTACTGGATAATGGAGCAGGTCTGATGCTACT 2307  
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DB 3088 ATAGCCTAGGCTGAAATTTTGTGCAGATAAATAAATAATCATTCATCCTT 3139

RESULT 10  
US-10-393-590-11  
; Sequence 11, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNOSTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 11  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-590-11

Query Match 99.8%; Score 2807.2; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 2809; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GAAATCACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTTTCATCTTGATT 60  
DB 328 GGAATCACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTTTCATCTTGATT 387  
QY 61 CTTACCTTCTAGAGGGGCCCTGAGTAATCACTCATTCAGCTGAAACAATGGCTAT 120  
DB 388 CTTACCTTCTAGAGGGGCCCTGAGTAATCACTCATTCAGCTGAAACAATGGCTAT 447  
QY 121 GAAGGCATTGTCGTTGCAATCGACCCCAATGTGCCAGAGATGAACACTCATTCACAA 180  
DB 448 GAAGGCATTGTCGTTGCAATCGACCCCAATGTGCCAGAGATGAACACTCATTCACAA 507  
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DB 508 ATAAAGGACATGGTGACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT 567  
QY 241 TATTTCAAAAATGTTGCCATTTTGTATCTCTGAAAACATGGAAGCAAGGCTGACTATG 300  
DB 568 TATTTCAAAAATGTTGCCATTTTGTATCTCTGAAAACATGGAAGCAAGGCTGACTATG 627

QY 301 AGACCAAAACCTTGAGACCTTACAAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCTCCA 360  
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QY 361 GGTAAATGATGAACCCCTACACTGAGCAGATGGGCAACTGTGGAGAGAGAGGTGAAAGGATC 420  
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QY 421 CACCTCACTCTCTGATTTTCAATTCAGGAAAAAGTTAGCTGAATATATGGAACCAAGGTAG 480  
DB 748 CACCTCACTCTCTGATTTTCAATTCAGGAAAAAGTTAGCTGAATATATGGAACCAAGGTAG 807  
QY 481 GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTTACGAGTACAAATATGAT 540  
DB 808 GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTTACGAGTACAAATATGAT 867  
QY 541 GAGAAATTTCTACTTATCCAAATGGAAGATACAAAGCAGTAAGATGTTTTCAGCAGGTATTACT 600  
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QY 601 GGTACAAATGTAGTAAAGAGTGTGAGGAGCAGCTGTTTACACCAAAAAGATGCACATTC 660  
DB 928 GGTACAAATGTAGTAAAGAGTGTGAGGAGCAGCTGTTTACACCAAAAAGATGCACATTC 987  
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DB 1048 GAGAAAGGCTTCTATAATGTTTGCACAAACATGTTGATTTCTATAGTTGAAATTTCTGTACAGAA 1107  
QY 781 CAAACCCACAAACAGAGCTCCAAACAGCAAAATCAAAAATGCAATCTCCGAGACACA 840  
DB 1108 CAAACCCACAAACAGAGCTCCAAACAGCAAAATCAAAAATGCAATCTCCGAGACACA 1167  
QY 841 TGGGAAGTGATCCGTGATTTCTGAGGACTTTAAGAAAAACCACTCTATATGACACACAGCCA 900  
DB 1168 TGGGAAGTGATCCGTGATTTCTGAGGACTTTAAGAAAAACCACTCTATGACACACAGCCA 1227  
QY 901 CCAATCCCACTTCTCATTTGCTGAGATTGCAAAAGAAATTTGTGTTTGTCTTGTGAC 960  
DB 1228 CCAATCCCACTTCTCATTTGCTGAGATTGCAAAAGAAATTTGTGTTTGTCTTGTGAC 1287  
QY 961 AATCTGGAAGCATGCGCAGCTGTAACCGCCTCAATCGACTCAATCGACTGAATCAAGCAGCCAGCTT 1020  
DB 1288 AATCTGGAAGCATGCGCAGCTGTAACCGCCTCAATCGACTCAATCGACTGAATCAAGCAGCCAGCTT 1347  
QY 1021 TTCTCTGCTGCACAGATTTGAGCTGGGGTCTCTGGGTTGGGATGGTGACATTTTGACAGTGCT 1080  
DB 1348 TTCTCTGCTGCACAGATTTGAGCTGGGGTCTCTGGGTTGGGATGGTGACATTTTGACAGTGCT 1407  
QY 1081 GCCCATGTACAAAGTGAATCTATACAGATAAACAGTGGCAGTGACAGGAGACACACTCGCC 1140  
DB 1408 GCCCATGTACAAAGTGAATCTATACAGATAAACAGTGGCAGTGACAGGAGACACACTCGCC 1467  
QY 1141 AAAAGNTTACCTGCAGCAGCTTTCAGGAGGAGCTCCATCTGCGCGGGCTTCGATCGGCA 1200  
DB 1468 AAAAGNTTACCTGCAGCAGCTTTCAGGAGGAGCTCCATCTGCGCGGGCTTCGATCGGCA 1527  
QY 1201 TTTTACTGTGATTAGGAAGAAATATCCAACTGATGATCTGAAATTTGTGTTGCTGAGCGGAT 1260  
DB 1528 TTTTACTGTGATTAGGAAGAAATATCCAACTGATGATCTGAAATTTGTGTTGCTGAGCGGAT 1587  
QY 1261 GGGGAAGACAAACATTAAGTGGGTGCTTTTAAACGAGGTCAAAACAAAGTGGTGCATCATC 1320  
DB 1588 GGGGAAGACAAACATTAAGTGGGTGCTTTTAAACGAGGTCAAAACAAAGTGGTGCATCATC 1647  
QY 1321 CACACAGTGGCTTTGGGGCCCTCTCAGCTCAAGACTAGAGAGCTGCCAAAATGACA 1380  
DB 1648 CACACAGTGGCTTTGGGGCCCTCTCAGCTCAAGACTAGAGAGCTGCCAAAATGACA 1707

Db	2788	GCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTTAAACGAAAAACNTT	2847
Qy	2521	ACTTTTGAAAATGGCACAGATCTTTTCATTGCTATTTCAGGCTGTGTGATAAGTTCGATCTG	2580
Db	2848	ACTTTTGAAAATGGCACAGATCTTTTCATTGCTATTTCAGGCTGTGTGATAAGTTCGATCTG	2907
Qy	2581	AAATCAGAAATATCCCAACATTTGCACGAGTATCTTTGTTTATTCCTCCACAGACTCCGCCA	2640
Db	2908	AAATCAGAAATATCCCAACATTTGCACGAGTATCTTTGTTTATTCCTCCACAGACTCCGCCA	2967
Qy	2641	GAGACACCTAGTCTCTGATGAAACGTCCTGCTCCTTGTCCTTAATATTCATATCAACGACCC	2700
Db	2968	GAGACACCTAGTCTCTGATGAAACGTCCTGCTCCTTGTCCTTAATATTCATATCAACGACCC	3027
Qy	2701	ATTCTCTGGCATTACACATTTTAAAAATTTATGTGGAAGTGGATAGAGAACTGCGAGCTGTCA	2760
Db	3028	ATTCTCTGGCATTACACATTTTAAAAATTTATGTGGAAGTGGATAGAGAACTGCGAGCTGTCA	3087
Qy	2761	ATAGCCTAGGCGCTGAATTTTTGTGCAGATAAATAAATCAATTCATCCTT	2812
Db	3088	ATAGCCTAGGCGCTGAATTTTTGTGCAGATAAATAAATCAATTCATCCTT	3139
RESULT 11			
US-10-393-590-12			
; Sequence 12, Application US/10393590			
; Publication No. US20030190656A1			
; GENERAL INFORMATION:			
; APPLICANT: WANG, YIXIN			
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO			
; FILE REFERENCE: CDS 268 US NP			
; CURRENT APPLICATION NUMBER: US/10/393,590			
; CURRENT FILING DATE: 2003-03-21			
; PRIOR APPLICATION NUMBER: 60/368,789			
; PRIOR FILING DATE: 2002-03-29			
; NUMBER OF SEQ ID NOS: 100			
; SOFTWARE: PatentIn version 3.1			
; SEQ ID NO 12			
; LENGTH: 3311			
; TYPE: DNA			
; ORGANISM: human			
US-10-393-590-12			
Query Match 99.8%; Score 2807.2; DB 15; Length 3311;			
Best Local Similarity 99.9%; Pred. No. 0;			
Matches 2809; Conservative 0; Mismatches 3; Indels 0; Gaps 0;			
Qy	1	GAATCACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTTTCATCTTGATT	60
Db	328	GGAATCACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTTTCATCTTGATT	387
Qy	61	CTTCACCTTCTAGAGGGGCCCTGAGTAATTCATCTCAATCAGCTGAAACAATGGCTAT	120
Db	388	CTTCACCTTCTAGAGGGGCCCTGAGTAATTCATCTCAATCAGCTGAAACAATGGCTAT	447
Qy	121	GAAGGCATTGTCGTTCGAATCGACCCCAATGTGCCAGAGATCAACACATTCATTCAACA	180
Db	448	GAAGGCATTGTCGTTCGAATCGACCCCAATGTGCCAGAGATCAACACATTCATTCAACA	507
Qy	181	ATAAGGACATGGTGACCCAGGCAATCTGTATCTGTTTGAAGCTACAGGAAAGCGATTT	240
Db	508	ATAAGGACATGGTGACCCAGGCAATCTGTATCTGTTTGAAGCTACAGGAAAGCGATTT	567
Qy	241	TATTTCAAAAATGTTGCCATTTTGTATTCCTGAAAACATGGAAGACAAAGGCTGATGTG	300
Db	568	TATTTCAAAAATGTTGCCATTTTGTATTCCTGAAAACATGGAAGACAAAGGCTGATGTG	627
Qy	301	AGACCAAACTTCAGACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCCTCCA	360
Db	628	AGACCAAACTTCAGACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCCTCCA	687
Qy	361	GGTAATGATGAACCCCTACACTGAGCAGATGGGCCAACTGTGGAGAAAGGGTGAAGGATC	420



Db 688 |||||GGTAAATGATGAACCCCTACACTGAGCAGATGGGCAACTGTGGAGAGAGGGTGAAGGATC 747  
Qy 421 CACCTCAGCTCCTGATTTCTTCAGGAAAAAGTTAGCTGAATATGGACCAACAAGGTAGG 480  
Db 748 CACCTCAGCTCCTGATTTCTTCAGGAAAAAGTTAGCTGAATATGGACCAACAAGGTAG 807  
Qy 481 GCATTTGCTCATGAGTGGGCTCATCTACATGAGGGAGATTTTGAAGAGTACAAATATGAT 540  
Db 808 GCATTTGCTCATGAGTGGGCTCATCTACATGAGGGAGATTTTGAAGAGTACAAATATGAT 867  
Qy 541 GAGAAATTTCTACTTATCCAAATGGAAGATACAGAGAGTGAAGTGTTCAGCAGTATTAAT 600  
Db 868 GAGAAATTTCTACTTATCCAAATGGAAGATACAGAGAGTGAAGTGTTCAGCAGTATTAAT 927  
Qy 601 GGTACAAATGTATGAAGAGTGTTCAGGAGGAGCTGTTCAGGAGGAGTGTTCAGCAGTATTAAT 660  
Db 928 GGTACAAATGTATGAAGAGTGTTCAGGAGGAGCTGTTCAGGAGGAGTGTTCAGCAGTATTAAT 987  
Qy 661 AATAAGTAAAGGACTCTATGAAGAGTGTTCAGGAGGAGTGTTCAGGAGGAGTGTTCAGCAGTATTAAT 720  
Db 988 AATAAGTAAAGGACTCTATGAAGAGTGTTCAGGAGGAGTGTTCAGGAGGAGTGTTCAGCAGTATTAAT 1047  
Qy 721 GAGAGGCTTCTATATGTTTGCACAAATGTTCAGGAGGAGTGTTCAGGAGGAGTGTTCAGCAGTATTAAT 780  
Db 1048 GAGAGGCTTCTATATGTTTGCACAAATGTTCAGGAGGAGTGTTCAGGAGGAGTGTTCAGCAGTATTAAT 1107  
Qy 781 CAAACCAACAACAAGAGCTCCTCAACAAAGCAATCAAAATGCAATCTCCGAGCACA 840  
Db 1108 CAAACCAACAACAAGAGCTCCTCAACAAAGCAATCAAAATGCAATCTCCGAGCACA 1167  
Qy 841 TCGGAAGTATCGGTGATTTCTGAGGACTTTAAGAAACCACTCTATGACACACAGCCA 900  
Db 1168 TCGGAAGTATCGGTGATTTCTGAGGACTTTAAGAAACCACTCTATGACACACAGCCA 1227  
Qy 901 CCAATCCCACTTCTCATTTGTCAGAGTGAACAAGAAATTTGTGTTTGTGCTTGTAC 960  
Db 1228 CCAATCCCACTTCTCATTTGTCAGAGTGAACAAGAAATTTGTGTTTGTGCTTGTAC 1287  
Qy 961 AAATCTGGAAGCATGCGACTGTGAACCGCTCAATCGACTGAATCAAGCAGCGAGCTT 1020  
Db 1288 AAATCTGGAAGCATGCGACTGTGAACCGCTCAATCGACTGAATCAAGCAGCGAGCTT 1347  
Qy 1021 TTCTCTGTCAGACAGTTGAGCTGGGCTCTGGGTTGGGATGGTGAATTTGACAGTGTCT 1080  
Db 1348 TTCTCTGTCAGACAGTTGAGCTGGGCTCTGGGTTGGGATGGTGAATTTGACAGTGTCT 1407  
Qy 1081 GCCCATGTAACAAGTGAATCTATACAGATAAACAAGTGGCAGTGAACAGGACACACTCGCC 1140  
Db 1408 GCCCATGTAACAAGTGAATCTATACAGATAAACAAGTGGCAGTGAACAGGACACACTCGCC 1467  
Qy 1141 AAAAGATTACCTGCAGCAGCTTCAGGAGGAGCTCCATCTGCAGCGGGCTTCGATCGGCA 1200  
Db 1468 AAAAGATTACCTGCAGCAGCTTCAGGAGGAGCTCCATCTGCAGCGGGCTTCGATCGGCA 1527  
Qy 1201 TTTTACTGTGATTTAGGAAGAAATATCAAACTGATGATCTGAAATTTGTGCTGACGGAT 1260  
Db 1528 TTTTACTGTGATTTAGGAAGAAATATCAAACTGATGATCTGAAATTTGTGCTGACGGAT 1587  
Qy 1261 GGGGAAGACAAACATATAGTGGTGTCTTAACAGAGTCAAAACAAGTGGTGCATCATC 1320  
Db 1588 GGGGAAGACAAACATATAGTGGTGTCTTAACAGAGTCAAAACAAGTGGTGCATCATC 1647  
Qy 1321 CACAGCTCGCTTTGGGCGCTTCAGCTCAGACTCAGAGTGAAGGAGTGTTCGAAATGACA 1380  
Db 1648 CACAGCTCGCTTTGGGCGCTTCAGCTCAGAGTGAAGGAGTGTTCGAAATGACA 1707  
Qy 1381 GGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACTAGGCTCATTTGATGCTTTT 1440  
Db 1708 GGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACTAGGCTCATTTGATGCTTTT 1767  
Qy 1441 GGGGCGCTTTCATCAGGAAATGAGGCTGTCTTCAGCGCTCCATCCAGCTTCGAGAGTAAAG 1500  
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Db 1768 GGGGCGCTTTCATCAGGAAATGAGGCTGTCTCTCAGCGCTCCATCCAGCTTCGAGAGTAAAG 1827  
Qy 1501 GGATTAACCCCTCCAGAACAGCCAGTGGATGAATGGCACAGTGTATCGTGACAGCACCGTG 1560  
Db 1828 GGATTAACCCCTCCAGAACAGCCAGTGGATGAATGGCACAGTGTATCGTGACAGCACCGTG 1887  
Qy 1561 GGAAGAGACATTTGTTTCTTATCAGCTGGACAAAGCAGCCTCCCAAAATCTTCTCTCG 1620  
Db 1888 GGAAGAGACATTTGTTTCTTATCAGCTGGACAAAGCAGCCTCCCAAAATCTTCTCTCG 1947  
Qy 1621 GATCCAGTGGACAGAAAGCAGGCTGTGTGTAGTGGACAAACCAAAATGGGCTTAC 1680  
Db 1948 GATCCAGTGGACAGAAAGCAGGCTGTGTGTAGTGGACAAACCAAAATGGGCTTAC 2007  
Qy 1681 CTCCAAATCCCAAGGCAATGCTAAGTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 1740  
Db 2008 CTCCAAATCCCAAGGCAATGCTAAGTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 2067  
Qy 1741 CAAAATCTTGACCTGACTGTCAAGTCCCGTGGTCCAAATGCTACCTGCTCCAATTACA 1800  
Db 2068 CAAAATCTTGACCTGACTGTCAAGTCCCGTGGTCCAAATGCTACCTGCTCCAATTACA 2127  
Qy 1801 GTGACTTCCAAACCAAGAGGACACCAAGCAATTTCCCGAGCCCTCTGTGTAGTTATGCA 1860  
Db 2128 GTGACTTCCAAACCAAGAGGACACCAAGCAATTTCCCGAGCCCTCTGTGTAGTTATGCA 2187  
Qy 1861 AATATTGCGCAAGGAGCCCTCCCAATTTCTCAGGCGCAGTGTCAAGCCCTGTATGTAATCA 1920  
Db 2188 AATATTGCGCAAGGAGCCCTCCCAATTTCTCAGGCGCAGTGTCAAGCCCTGTATGTAATCA 2247  
Qy 1921 GTGAATGGAAAAACAAGTTTACCTTTGGAACTATCTGGATTAATGGAGCAGGCTGTATGCTACT 1980  
Db 2248 GTGAATGGAAAAACAAGTTTACCTTTGGAACTATCTGGATTAATGGAGCAGGCTGTATGCTACT 2307  
Qy 1981 AAGGATGCGGTCTCTACTCAGAGTATTTCAAACTTATGACACGAATGGTAGATACAGT 2040  
Db 2308 AAGGATGCGGTCTCTACTCAGAGTATTTCAAACTTATGACACGAATGGTAGATACAGT 2367  
Qy 2041 GTAAAAGTGGCGGCTCTGGGAGGAGTTAACGAGCAGCAGAGAGTGTATCCCGAGCAG 2100  
Db 2368 GTAAAAGTGGCGGCTCTGGGAGGAGTTAACGAGCAGCAGAGAGTGTATCCCGAGCAG 2427  
Qy 2101 AGTGAGCAGCTGTACATACCTGGTGGATTTGAGAAATGATGAATAAATGGAATCCACCA 2160  
Db 2428 AGTGAGCAGCTGTACATACCTGGTGGATTTGAGAAATGATGAATAAATGGAATCCACCA 2487  
Qy 2161 AGACCTGAAATTAATAAGGATGATGTTCAACACAGCAAGTGTGTTTCAGCAGAAATCC 2220  
Db 2488 AGACCTGAAATTAATAAGGATGATGTTCAACACAGCAAGTGTGTTTCAGCAGAAATCC 2547  
Qy 2221 TCGGGAGGCTCATTTGTGGCTTCTGATGTCCCAAAATGCTCCCATACCTGATCTCTTCCCA 2280  
Db 2548 TCGGGAGGCTCATTTGTGGCTTCTGATGTCCCAAAATGCTCCCATACCTGATCTCTTCCCA 2607  
Qy 2281 CTGCGCCAAATCACCGACCTGAAGCGGAAATTTCAAGGGGAGTCTCAATTAATCTGACT 2340  
Db 2608 CTGCGCCAAATCACCGACCTGAAGCGGAAATTTCAAGGGGAGTCTCAATTAATCTGACT 2667  
Qy 2341 TGGACAGCTCTCGGGAGTATGACCATGGAACAGCTCAGAGTATATCATTCGAATA 2400  
Db 2668 TGGACAGCTCTCGGGAGTATGACCATGGAACAGCTCAGAGTATATCATTCGAATA 2727  
Qy 2401 AGTACAGTATTTCTTGATCTCAGAGCAAGTTCAATGAATCTCTTCAAGTGAATACTACT 2460  
Db 2728 AGTACAGTATTTCTTGATCTCAGAGCAAGTTCAATGAATCTCTTCAAGTGAATACTACT 2787  
Qy 2461 GCTCTCATCCCAAGGAAGCCAACTCTGAGGAAGTCTTTTTTGTGTTTAAACAGAAAAAT 2520  
Db 2788 GCTCTCATCCCAAGGAAGCCAACTCTGAGGAAGTCTTTTTTGTGTTTAAACAGAAAAAT 2847  
Qy 2521 ACTTTTGAATAAGGACAGATCTTTTTCATGCTATTCAGGCTGTGATAGGTCGATCTG 2580  
Db 2848 ACTTTTGAATAAGGACAGATCTTTTTCATGCTATTCAGGCTGTGATAGGTCGATCTG 2907  
|||||

QY 2581 AAATCAGAAATATCAAAATTCACAGATATCTTGTGTTTATTCCTCCAGACTCGGCA 2640  
DB 2908 AAATCAGAAATATCAAAATTCACAGATATCTTGTGTTTATTCCTCCAGACTCGGCA 2967  
QY 2641 GAGACACCTAGTCTGTGATGAACGCTGCTGCTTGTCTTAAATATTCATATCAACAGCACC 2700  
DB 2968 GAGACACCTAGTCTGTGATGAACGCTGCTGCTTGTCTTAAATATTCATATCAACAGCACC 3027  
QY 2701 ATTCCTGCAATTCACATTTTAAATATATGTGGAAGTGTGATAGGAAGTGTGATGCA 2760  
DB 3028 ATTCCTGCAATTCACATTTTAAATATATGTGGAAGTGTGATAGGAAGTGTGATGCA 3087  
QY 2761 ATAGCTAGGCTGAATTTTGTGATGAATAAATAAATCAATTCATCCTT 2812  
DB 3088 ATAGCTAGGCTGAATTTTGTGATGAATAAATAAATCAATTCATCCTT 3139

RESULT 12  
US-10-393-590-46  
; Sequence 46, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNOSTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 46  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-590-46

Query Match 99.8%; Score 2807.2; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 2809; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GAAATCAGAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTTCACTTTGATT 60  
DB 328 GGAATCAGAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTTCACTTTGATT 387  
QY 61 CTTCACCTTTAGAAAGGGCCCTGAGTAATCACTCAATTCAGCTGAAACAAATGGCTAT 120  
DB 388 CTTCACCTTTAGAAAGGGCCCTGAGTAATCACTCAATTCAGCTGAAACAAATGGCTAT 447  
QY 121 GAAGGCATTTGCTTGCATCGACCCCAATGTCAGAGATGAACACTCAATTCACAA 180  
DB 448 GAAGGCATTTGCTTGCATCGACCCCAATGTCAGAGATGAACACTCAATTCACAA 507  
QY 181 ATAAAGACATGGTCAACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT 240  
DB 508 ATAAAGACATGGTCAACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT 567  
QY 241 TATTTCAAAATGTTGGCCATTTTGTATCTGTAACATGGAAGACAAAGGCTGATGTG 300  
DB 568 TATTTCAAAATGTTGGCCATTTTGTATCTGTAACATGGAAGACAAAGGCTGATGTG 627  
QY 301 AGACCAAACTTGAGACCTTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCA 360  
DB 628 AGACCAAACTTGAGACCTTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCA 687  
QY 361 GGTATATGAACCTTACACTGAGCAGATGGGCAACTGTGGAGAGAAGGTTGAAGGATC 420  
DB 688 GGTATATGAACCTTACACTGAGCAGATGGGCAACTGTGGAGAGAAGGTTGAAGGATC 747  
QY 421 CACCTCACTCTGATTTTCAATTCAGGAAAAAAGTTAGCTGAATATGGACCAAGGATAG 480  
DB 748 CACCTCACTCTGATTTTCAATTCAGGAAAAAAGTTAGCTGAATATGGACCAAGGATAG 807

QY 481 GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT 540  
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QY 541 GAGAAATTTCTATTATCCAATGGAAGAAATACAAGCAGTAAGATGTTTCAGAGGTATTACT 600  
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DB 928 GGTACAAATGTAGTAAAGAGTGTGAGGAGGAGCTGTACACCAAAAGATGACATTC 987  
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QY 781 CAAAACCAACAAAGAGCTCCAAAACAGCAAAATCAAAAATGCAATCTCCGAAGCACA 840  
DB 1108 CAAAACCAACAAAGAGCTCCAAAACAGCAAAATCAAAAATGCAATCTCCGAAGCACA 1167  
QY 841 TGGGAAGTGATCCGTGATTTCTGAGGACTTTAAGAAAACCACTCTTATGACAAACAGCCA 900  
DB 1168 TGGGAAGTGATCCGTGATTTCTGAGGACTTTAAGAAAACCACTCTTATGACAAACAGCCA 1227  
QY 901 CAAAATCCCACTTCTCATTTGCTGAGATTGGACAAAGAAATGTTGTTAGTCTCTTGAC 960  
DB 1228 CAAAATCCCACTTCTCATTTGCTGAGATTGGACAAAGAAATGTTGTTAGTCTCTTGAC 1287  
QY 961 AAATCTGGAAGCATGGCGACTGTGTAACCGCTCAATCGACTGAATCAAGAGCGCCAGCTT 1020  
DB 1288 AAATCTGGAAGCATGGCGACTGTGTAACCGCTCAATCGACTGAATCAAGAGCGCCAGCTT 1347  
QY 1021 TTCCTGCTGCAGACAGTTGAGCTGGGGTCTGGGTTGGATGGTGACATTTGACAGTGTCT 1080  
DB 1348 TTCCTGCTGCAGACAGTTGAGCTGGGGTCTGGGTTGGATGGTGACATTTGACAGTGTCT 1407  
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DB 1408 GCCCATGTACAAAGTGAACTCATACAGATAAACAGTGGCAGTGACAGGAGACACTCGCC 1467  
QY 1141 AAAGATTTACCTGCAGCAGCTTCAGGAGGAGCTCCATCTGCAGCGGGCTTCGATCGGCA 1200  
DB 1468 AAAGATTTACCTGCAGCAGCTTCAGGAGGAGCTCCATCTGCAGCGGGCTTCGATCGGCA 1527  
QY 1201 TTTACTGTGATTAGGAAGAAATATCCAACCTGATGATCTGAAATTTGCTGCTGACGGAT 1260  
DB 1528 TTTACTGTGATTAGGAAGAAATATCCAACCTGATGATCTGAAATTTGCTGCTGACGGAT 1587  
QY 1261 GGGGAAGACAACTATTAAGTGGGTGCTTTAAACGAGGTCAAAACAAAGTGGTGGCCATCATC 1320  
DB 1588 GGGGAAGACAACTATTAAGTGGGTGCTTTAAACGAGGTCAAAACAAAGTGGTGGCCATCATC 1647  
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DB 1708 GGAGTTTACAGACATATGCTTTCAGATCAAGTTCAAGAAATGGCTCTCATTCATGCTTTT 1767  
QY 1441 GGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTTGAGAGTAAG 1500  
DB 1768 GGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTTGAGAGTAAG 1827  
QY 1501 GGATTAACCTTCCAGAACAGCCAGTGGATGAATGGCAGTGTCTGGACAGCACCGTG 1560  
DB 1828 GGATTAACCTTCCAGAACAGCCAGTGGATGAATGGCAGTGTCTGGACAGCACCGTG 1887





868 GAGAAATCTCTATCCAAATGGAAGATTAACAGCAGTAAGATGTTTCAGCAGGTATTACT 927  
601 GGTACAAATGTAGTAAGAAGTGTGAGGAGCAGCTGTATACCAAAAAGATGACATTC 660  
928 GGTACAAATGTAGTAAGAAGTGTGAGGAGCAGCTGTATACCAAAAAGATGACATTC 987  
661 AATAAGTAACAGGACTCTATGAAAAGAGATGTGAGTTGTTCTCAATCCCGCAGAGG 720  
988 AATAAGTTACAGGACTCTATGAAAAGAGATGTGAGTTGTTCTCAATCCCGCAGAGG 1047  
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1048 GAGAAAGCTTCTATATGTTTGCACAAATGTTGATTTCTATAGTTGAAATTCGTGTACAGAA 1107  
781 CAAAACCAACAAAGAGCTCAAAACAGCAAAAATCAAAAATGCAATCTCCGAAGACCA 840  
1108 CAAAACCAACAAAGAGCTCAAAACAGCAAAAATCAAAAATGCAATCTCCGAAGACCA 1167  
841 TGGGAAGTGATCCGTTGATTCAGGACTTTAAGAAAACCACTCTATGACAAACACAGCCA 900  
1168 TGGGAAGTGATCCGTTGATTCAGGACTTTAAGAAAACCACTCTATGACAAACACAGCCA 1227  
901 CCAAAATCCCACTTCTCATTTGTCAGATTTGCAAAAGAAATTTGTGTTTGTAGTCTTGAC 960  
1228 CCAAAATCCCACTTCTCATTTGTCAGATTTGCAAAAGAAATTTGTGTTTGTAGTCTTGAC 1287  
961 AAATCTGGAAGCATGGCGACTGGTAAACCGCTCAATCGACTGAATCAAGCAGCGCAGTT 1020  
1288 AAATCTGGAAGCATGGCGACTGGTAAACCGCTCAATCGACTGAATCAAGCAGCGCAGTT 1347  
1021 TTCTCTGTCGACAGATTTGAGCTGGGTCTCGGTTGGGATGGTGCATTTTCACAGTGTCT 1080  
1348 TTCTCTGTCGACAGATTTGAGCTGGGTCTCGGTTGGGATGGTGCATTTTCACAGTGTCT 1407  
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1468 AAAAGATTAACCTGACAGCTTCAGAGGAGCTCCATCTGACGGGGCTTCGATCGGCA 1527  
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1528 TTCTCTGATTTAGGAAGAAATATCAACTGATGGATCTGAAATTTGCTGCTGACGGAT 1587  
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1381 GGAGGTTTACACATATGCTTCAGATCAAGTTCAAGAAATGGCTCATTTGATGCTTTT 1440  
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1441 GGGGGCCCTTTTCATCAGGAATGGAGCTGTCTCTCAGCGCTCCATCAGCTTCAGAGTAAG 1500  
1768 GGGGGCCCTTTTCATCAGGAATGGAGCTGTCTCTCAGCGCTCCATCAGCTTCAGAGTAAG 1827  
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1828 GGATTAACCTTCAGAAACGAGTGGATGAATGGACAGTGAATGGTGAACAGCACCGTG 1887  
1561 GGAAAGGACATTTGTTTCTTATCCTCGGACAAAGCAGCTCCCAATCTCTCTGG 1620  
1888 GGAAAGGACATTTGTTTCTTATCCTCGGACAAAGCAGCTCCCAATCTCTCTGG 1947  
1621 GATCCAGTGGACAGAAAGAGTGGCTTTGTAGTGGACAAAAACCAAAAATGGCTTAC 1680

1948 GATCCAGTGGACAGAAAGGTGGCTTTGTAGTGGACAAAAACCAAAAATGGCTTAC 2007  
1681 CTCAAAATCCCAAGCATTGTAAAGTTGSCACTTGGAAATACAGTCTGCAACAAGCTCA 1740  
2008 CTCAAAATCCCAAGCATTGTAAAGTTGSCACTTGGAAATACAGTCTGCAACAAGCTCA 2067  
1741 CAAAATCTGAACCTGACTGTCAAGTCCCGTGGTCCCAATGTCTACCTGCTCTCAATTA 1800  
2068 CAAACCTTGAACCTGACTGTCAAGTCCCGTGGTCCCAATGTCTACCTGCTCTCAATTA 2127  
1801 GTGACTTCCAAAACGAAACAGACACAGCAAAATCCCAAGCCTCTGCTGATTTATGA 1860  
2128 GTGACTTCCAAAACGAAACAGACACAGCAAAATCCCAAGCCTCTGCTGATTTATGA 2187  
1861 AATATTCCCAAGGAGCTCCCAATTTCTCAGGCGCAGTGTCAAGCCTGATTTGAATCA 1920  
2188 AATATTCCCAAGGAGCTCCCAATTTCTCAGGCGCAGTGTCAAGCCTGATTTGAATCA 2247  
1921 GTGAATGGAATAACAGTTTACCTTGGAACTACTTGGATTAATGGAGCAGGTGCTGATCT 1980  
2248 GTGAATGGAATAACAGTTTACCTTGGAACTACTTGGATTAATGGAGCAGGTGCTGATCT 2307  
1981 AAGGATGACGGTGTCTACTCAAGGATTTTCAAACTTATGACACGAAATGGTATGATCA 2040  
2308 AAGGATGACGGTGTCTACTCAAGGATTTTCAAACTTATGACACGAAATGGTATGATCA 2367  
2041 GTAAAAGTGGGGCTCTGGGAGGAGTTAACGAGCAGCAGCGAGAGTGTATCCCGAGAG 2100  
2368 GTAAAAGTGGGGCTCTGGGAGGAGTTAACGAGCAGCAGCGAGAGTGTATCCCGAGAG 2427  
2101 AGTGAGCAGCTGTACATACCTTGGCTGGATTTGAGAAATGATGAAATCAATGGAATCCACCA 2160  
2428 AGTGAGCAGCTGTACATACCTTGGCTGGATTTGAGAAATGATGAAATCAATGGAATCCACCA 2487  
2161 AGACTGAAAATTAATGAAGATGATTTCAACAAGCAAGTGTGTTTCAGCAGAAACATCC 2220  
2488 AGACTGAAAATTAATGAAGATGATTTCAACAAGCAAGTGTGTTTCAGCAGAAACATCC 2547  
2221 TCGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGCTCCCATACCTGATCTCTTCCA 2280  
2548 TCGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGCTCCCATACCTGATCTCTTCCA 2607  
2281 CTTGCCAAAATCACCGACTGAAGCGGAAATTCACGGGGCAGTCTCATTAATCTGACT 2340  
2608 CTTGCCAAAATCACCGACTGAAGCGGAAATTCACGGGGCAGTCTCATTAATCTGACT 2667  
2341 TGGACAGCTCTCGGGATGATTTATGACCATGGAACAGCTCAACAGTATATCAATCGAATA 2400  
2668 TGGACAGCTCTCGGGATGATTTATGACCATGGAACAGCTCAACAGTATATCAATCGAATA 2727  
2401 AGTACAGTATTTCTTGATCTCAGAGACAAAGTTCAATGAATCTCTTCAAGTGAATACTACT 2460  
2728 AGTACAGTATTTCTTGATCTCAGAGACAAAGTTCAATGAATCTCTTCAAGTGAATACTACT 2787  
2461 GCTCTCATCCAAAGGAAGCAACTCTCAGGAAGTCTTTTGTGTTTAAACAGAAACATTT 2520  
2788 GCTCTCATCCAAAGGAAGCAACTCTCAGGAAGTCTTTTGTGTTTAAACAGAAACATTT 2847  
2521 ACTTTTGAATAATGGCAGAGATCTTTTCAATGCTATTCAGGCTGTTGATAAGTCTGATCG 2580  
2848 ACTTTTGAATAATGGCAGAGATCTTTTCAATGCTATTCAGGCTGTTGATAAGTCTGATCG 2907  
2581 AAATCAGAAATATCCAACTTGCAGAGATCTTTTGTGTTTATTCCTCCACAGACTCCGCCA 2640  
2908 AAATCAGAAATATCCAACTTGCAGAGATCTTTTGTGTTTATTCCTCCACAGACTCCGCCA 2967  
2641 GAGACACCTAGTCTGTGATGAAAACGTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2700  
2968 GAGACACCTAGTCTGTGATGAAAACGTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 3027  
2701 ATTCTGCAATTCACATTTTAAAAATTAATGTGGAAGTGGATAGGAGAACTGCGAGCTGTCA 2760  
3028 ATTCTGCAATTCACATTTTAAAAATTAATGTGGAAGTGGATAGGAGAACTGCGAGCTGTCA 3087

QY	2761	ATAGCCTAGGCGTCAAAATTTTGTGACATAAATAAATAATCATTCATCCCTT	2812
DB	3088	ATAGCCTAGGCGTGAATTTTGTGACATAAATAAATAATCATTCATCCCTT	3139
RESULT 14			
US-10-393-567-11			
; Sequence 11, Application US/10393567			
; Publication No. US2003019473A1			
; GENERAL INFORMATION:			
; APPLICANT: WANG, YIXIN			
; TITLE OF INVENTION: CANCER DIAGNOSTIC PANEL			
; FILE REFERENCE: CDS 269 US NP			
; CURRENT APPLICATION NUMBER: US/10/393,567			
; PRIOR FILING DATE: 2003-03-21			
; PRIOR FILING DATE: 2002-03-29			
; NUMBER OF SEQ ID NOS: 100			
; SOFTWARE: PatentIn version 3.1			
; SEQ ID NO 11			
; LENGTH: 3311			
; TYPE: DNA			
; ORGANISM: human			
US-10-393-567-11			
Query Match 99.8%; Score 2807.2; DB 15; Length 3311;			
Best Local Similarity 99.9%; Pred. No. 0;			
Matches 2809; Conservative 0; Mismatches 3; Indels 0; Gaps 0			
QY	1	GAATATCACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCGTGTTCACTCTTGATT	60
DB	328	GGAATCACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCGTGTTCACTCTTGATT	387
QY	61	CTTCACCTTCTAGAGGGGCCCTCAGTAATTCACCTCATTCAGCTGAAACAACAATGGCTAT	120
DB	388	CTTCACCTTCTAGAGGGGCCCTCAGTAATTCACCTCATTCAGCTGAAACAACAATGGCTAT	447
QY	121	GAAGGCATTGTCGTTGCAATCGACCCCAATGTCGACAGAGATGAACACTCATTTCAACAA	180
DB	448	GAAGGCATTGTCGTTGCAATCGACCCCAATGTCGACAGAGATGAACACTCATTTCAACAA	507
QY	181	ATAAAGGACATGGTGACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGGAAGGCATTT	240
DB	508	ATAAAGGACATGGTGACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGGAAGGCATTT	567
QY	241	TATTTCAAAAATGTTGCCATTTTGATTCTCTGAAACATGGAAAGACAAAGGCTGACTATGTG	300
DB	568	TATTTCAAAAATGTTGCCATTTTGATTCTCTGAAACATGGAAAGACAAAGGCTGACTATGTG	627
QY	301	AGACCAAACTTGAGACCTACAAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCTCA	360
DB	628	AGACCAAACTTGAGACCTACAAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCTCA	687
QY	361	GGTAATGATGAACCTCACCTGAGCAGATGGCAACTGTGAGAGAGAGGGTGAAAGGATC	420
DB	688	GGTAATGATGAACCTCACCTGAGCAGATGGCAACTGTGAGAGAGAGGGTGAAAGGATC	747
QY	421	CACCTCACTCCTGATTTCAATTCGAGGAAAAAAGTTAGCTGAATATGGACCAAGGATAGG	480
DB	748	CACCTCACTCCTGATTTCAATTCGAGGAAAAAAGTTAGCTGAATATGGACCAAGGATAGG	807
QY	481	GCATTTGTCATGATGGGCTCATCTACGATGGGGAGTATTTGACGAGTACAAATATGAT	540
DB	808	GCATTTGTCATGATGGGCTCATCTACGATGGGGAGTATTTGACGAGTACAAATATGAT	867
QY	541	GAGAAATTCCTACTTATCCAAATGGAAGAATACAAGCAGTAAAGTGTTCAGCAGGTATTACT	600
DB	868	GAGAAATTCCTACTTATCCAAATGGAAGAATACAAGCAGTAAAGTGTTCAGCAGGTATTACT	927
QY	601	GGTACAAATGTAGTAAAGAAAGTGTGAGGGAGCGAGCTGTTTACACAAAAGATGCAATTC	660
DB	928	GGTACAAATGTAGTAAAGAAAGTGTGAGGGAGCGAGCTGTTTACACAAAAGATGCAATTC	987

Qy	661	AATAAGTAAACGACTCTATGAAAAAGGATGTAGTTTGTTCTCCAAATCCCGCAGACG	720
Db	988	AA'AAAAGTTACAGGACTCTATGAAAAAGGATGTAGTTTGTTCTCCAAATCCCGCAGACG	1047
Qy	721	GAGAAGGCCTTCATAATGTTTTGGCAACAATGTTGATTCTATAGTTGAAT'TCTGTACAGAA	780
Db	1048	GAGNAGGCTTCTAATATGTTTGGCAACAATGTTGATTCTATAGTTGNAT'TCTGTACAGAA	1107
Qy	781	CRAAACCCACAAGGAAGCTCCAAA'CAAGCAAAAATCAAANAATGCAAT'TCCGAAGCAC	840
Db	1108	CAAAACCACAAGGAAGCTCCAAA'CAAGCAAAAATCAAANAATGCAAT'TCCGAAGCAC	1167
Qy	841	TGGGAAGTAGTCGTGAT'TCTGAGGACTTTAAGAAAAACCACTCCTATGACAAACAGCCA	900
Db	1168	TGGGAAGTAGTCGTGAT'TCTGAGGACTTTTAAGAAAAACCACTCCTATGACAAACAGCCA	1227
Qy	901	CCAAATCCCACTTCTCATTTGCTGCAGATTGGACAAGAAAT'TGTGTTTAGTCTCTTGAC	960
Db	1228	CCAAATCCCACTTCTCATTTGCTGCAGATTGGACAAGAAAT'TGTGTTTAGTCTCTTGAC	1287
Qy	961	AAATCTGGAAGCATGGCGACTGTTAAACCGCCTCAATCGACTGAATCAAGCAGGCCAGCTT	1020
Db	1288	AAATCTGGAAGCATGGCGACTGTTAAACCGCCTCAATCGACTGAATCAAGCAGGCCAGCTT	1347
Qy	1021	TTCCCTGCTGCAGACAGTTGAGCTGGGGTCTGGGTTGGGATNGTGATTTGACAGTGCT	1080
Db	1348	TTCCCTGCTGCAGACAGTTGAGCTGGGGTCTGGGTTGGGATNGTGATTTGACAGTGCT	1407
Qy	1081	GCCCATGTACAAAGTGNACTCATACAGNTAAACAGTGGCAGTGCACGGGACACACTCGCC	1140
Db	1408	GCCCATGTACAAAGTGAACCTCATACAGNTAAACAGTGGCAGTGCACGGGACACACTCGCC	1467
Qy	1141	AAAAGATTACCTGCAGCAGCTTCAGGAGGGACGCTCCATCTGCAGCGGGCTTCGATCGGCA	1200
Db	1468	AAAAGATTACCTGCAGCAGCTTCAGGAGGGACGCTCCATCTGCAGCGGGCTTCGATCGGCA	1527
Qy	1201	TTTTACTGTGNTAGGAAGAAATATCCAATGTAGTGGATCTGAAAT'TGTGCTGTGACGGAT	1260
Db	1528	TTTTACTGTGNTAGGAAGAAATATCCAATGTAGTGGATCTGAAAT'TGTGCTGTGACGGAT	1587
Qy	1261	GGGGAAGACAACACTATAGTGGGTGCTTTAA'CGAGSTCAAA'CAAAAGTGGTGCCATCATC	1320
Db	1588	GGGGAAGACAACACTATAGTGGGTGCTTTAA'CGAGSTCAAA'CAAAAGTGGTGCCATCATC	1647
Qy	1321	CACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACA	1380
Db	1648	CACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACA	1707
Qy	1381	GGAGGTTTACAGACATATGCTTCAGATCAAGTT'CAGAAACAATGGCCCTCATTTGATGCTTTT	1440
Db	1708	GGAGGTTTACAGACATATGCTTCAGATCAAGTT'CAGAAACAATGGCCCTCATTTGATGCTTTT	1767
Qy	1441	GGGGCCCTTTTCAGGAAATGAGCTGTCTCTCAGGGCTCCATCCAGCTTTGAGAGTAAG	1500
Db	1768	GGGGCCCTTTTCAGGAAATGAGCTGTCTCTCAGGGCTCCATCCAGCTTTGAGAGTAAG	1827
Qy	1501	GGATTAAACCTCCAGAACAGCCAGTGGATGAATGGGCA'CACTGATCGTGGACAGCACCGTG	1560
Db	1828	GGATTAAACCTCCAGAACAGCCAGTGGATGAATGGGCA'CACTGATCGTGGACAGCACCGTG	1887
Qy	1561	GGAAAGGACACTTTGTTTCTTATCACTCGGACAAACGAGCGCTCCCCAAATCTCTCTCGG	1620
Db	1888	GGAAAGGACACTTTGTTTCTTATCACTCGGACAAACGAGCGCTCCCCAAATCTCTCTCGG	1947
Qy	1621	GATCCCAGTGGACAGAAAGTGSGCTTTTGTAGTGGACAAAAACCAAAAATGGCCTAC	1680
Db	1948	GATCCCAGTGGACAGAAAGTGSGCTTTTGTAGTGGACAAAAACCAAAAATGGCCTAC	2007
Qy	1681	CTCCAAATCCCGGCAATGCTTAAGTTTGGCACTTTGNAATATACAGTCTGCAAGCAAGTCA	1740
Db	2008	CTCCAAATCCCGGCAATGCTTAAGTTTGGCACTTTGNAATATACAGTCTGCAAGCAAGTCA	2067

Qy	1741	CAAAACCTTGACCCCTGACTGTGTCACGTCGCCGTGCGTGCCAATGCTACCCCTGCCTCCAAATTACA	1800
Db	2068	CAAAACCTTGACCCCTGACTGTGTCACGTCGCCGTGCGTGCCAATGCTACCCCTGCCTCCAAATTACA	2127
Qy	1801	GTGACTTCCAAAACGAAACAGGACACACAGCAAAATTTCCCAAGCCCTCTGCTAGTGTTTATGCA	1860
Db	2128	GTGACTTCCAAAACGAAACAGGACACACAGCAAAATTTCCCAAGCCCTCTGCTAGTGTTTATGCA	2187
Qy	1861	AATATTCCCAAGGAGGCTCCCCAAATTTCTCAGGGCCAGTGTCAAGCCCTGATTTGAATCA	1920
Db	2188	AATATTCCCAAGGAGGCTCCCCAAATTTCTCAGGGCCAGTGTCAAGCCCTGATTTGAATCA	2247
Qy	1921	GTGAATCGAAAAACAGTTACCTTGGAACTACTTGGAAATATGGAGCAGGTGCTGATGCTTACT	1980
Db	2248	GTGAATCGAAAAACAGTTACCTTGGAACTACTTGGAAATATGGAGCAGGTGCTGATGCTTACT	2307
Qy	1981	AAGGATCAGCGTGTCTACTCTCAAGGTATTTACAACTTTATGACACGAATGGTAGATACAGT	2040
Db	2308	AAGGATCAGCGTGTCTACTCTCAAGGTATTTACAACTTTATGACACGAATGGTAGATACAGT	2367
Qy	2041	GTAAAAAGTCGGGGCTCTGGGAGAGTTAAACGACCCAGACGAGGAGTGTATACCCAGCAG	2100
Db	2368	GTAAAAAGTCGGGGCTCTGGGAGAGTTAAACGACCCAGACGAGGAGTGTATACCCAGCAG	2427
Qy	2101	AGTGGACACTGTACATACCTCGCTGGATTTAGAGAAATGATGAATACAAATGGAATCCACCA	2160
Db	2428	AGTGGACACTGTACATACCTCGCTGGATTTAGAGAAATGATGAATACAAATGGAATCCACCA	2487
Qy	2161	AGACCTGAAATTAATAAGGATGATGTTCAACACAAAGCAAGTGTGTTTTCAGCAGAAATCC	2220
Db	2488	AGACCTGAAATTAATAAGGATGATGTTCAACACAAAGCAAGTGTGTTTTCAGCAGAAATCC	2547
Qy	2221	TCGGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGCTCCCATACCTGATCTCTTCCCA	2280
Db	2548	TCGGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGCTCCCATACCTGATCTCTTCCCA	2607
Qy	2281	CCTGGCCAAATCACCGACCTGAAGCGCGGAAATTCACGGGGGCGAGTCTCATTAATCTGACT	2340
Db	2608	CCTGGCCAAATCACCGACCTGAAGCGCGGAAATTCACGGGGGCGAGTCTCATTAATCTGACT	2667
Qy	2341	TGGAACGCTCTCGGGATGATTTATGACATGGAAACAGTCAACAGTATATCATTCGAAATA	2400
Db	2668	TGGAACGCTCTCGGGATGATTTATGACATGGAAACAGTCAACAGTATATCATTCGAAATA	2727
Qy	2401	AGTACAAGTATTTCTTGATCTCAGAGACAAAGTTCAATGAATCTCTTCAAGTGAATACTACT	2460
Db	2728	AGTACAAGTATTTCTTGATCTCAGAGACAAAGTTCAATGAATCTCTTCAAGTGAATACTACT	2787
Qy	2461	GCTCTCATCCCAAGGAAGCCAACTCTGAGGAAGTCTTTTTTGTTTTAAACACGAAAAACATT	2520
Db	2788	GCTCTCATCCCAAGGAAGCCAACTCTGAGGAAGTCTTTTTTGTTTTAAACACGAAAAACATT	2847
Qy	2521	ACTTTTCGAAATGSCACAGATCTTTTCATTTGCTATTACGGCTGTTGATAGGTGCTGATCTG	2580
Db	2848	ACTTTTCGAAATGSCACAGATCTTTTCATTTGCTATTACGGCTGTTGATAGGTGCTGATCTG	2907
Qy	2581	AAATCAGAAATATCCAAACATTGACAGGATCTTTTGTTTTATTCCTCCACAGACTCCGCGCA	2640
Db	2908	AAATCAGAAATATCCAAACATTGACAGGATCTTTTGTTTTATTCCTCCACAGACTCCGCGCA	2967
Qy	2641	GAGACCTAGTCTGATGAAACGTCCTGCTCTGCTCTTAATATTCATATCAACAGCAGCC	2700
Db	2968	GAGACCTAGTCTGATGAAACGTCCTGCTCTGCTCTTAATATTCATATCAACAGCAGCC	3027
Qy	2701	ATTCTTGGCATTTACATTTTAAAAATTTATGTGGAAGTGGATAGGAGAACTGACGCTGTCA	2760
Db	3028	ATTCTTGGCATTTACATTTTAAAAATTTATGTGGAAGTGGATAGGAGAACTGACGCTGTCA	3087
Qy	2761	ATAGCCTAGGGCTGAAATTTTGTGCAGATAATAAAAAATCAATTCATCTT 2812	
Db	3088	ATAGCCTAGGGCTGAAATTTTGTGCAGATAATAAAAAATCAATTCATCTT 3139	

RESULT 15  
US-10-393-567-12  
; Sequence 12, Application US/10393567  
; Publication No. US20030194733A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: CANCER DIAGNOSTIC PANEL  
; FILE REFERENCE: CDS 269 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,567  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,667  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 12  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-567-12

Query Match	99.8%;	Score 2807.2;	DB 15;	Length 3311;
Best Local Similarity	99.9%;	Pred. No. 0;		
Matches 2809;	Conservative 0;	Mismatches 3;	Indels 0;	Gaps 0;
QY	1	GAAATCACGGAGATGTACAGCAATGGGGCCATTTAAAGAGTTCTGTGTTTCATCTTCGATT	60	
Db	328	GGAATCACGGAGATGTACAGCAATGGGGCCATTTAAAGAGTTCTGTGTTTCATCTTCGATT	387	
QY	61	CTTCACCTTCTAGAAGGGGCCCTGAGTAATTCACATTCAGCTGAAACAACAATGGCTAT	120	
Db	388	CTTCACCTTCTAGAAGGGGCCCTGAGTAATTCACATTCAGCTGAAACAACAATGGCTAT	447	
QY	121	GAAGGCATTTGTTGGAATCGACCCCAATGTGCGCAGAAGATGAAACACATCATTCAACAA	180	
Db	448	GAAGGCATTTGTTGGAATCGACCCCAATGTGCGCAGAAGATGAAACACATCATTCAACAA	507	
QY	181	ATAAGGACATGTTGACCCAGGCAATCTCTGATCTGTTTGAAGCTACAGGAAGCGATTT	240	
Db	508	ATAAGGACATGTTGACCCAGGCAATCTCTGATCTGTTTGAAGCTACAGGAAGCGATTT	567	
QY	241	TATTTCAAAAATGTTGCCATTTTGAATTCCTGAAACATGGAAGACAAAGGCTGACTATGTG	300	
Db	568	TATTTCAAAAATGTTGCCATTTTGAATTCCTGAAACATGGAAGACAAAGGCTGACTATGTG	627	
QY	301	AGACCAAACTTGAGACTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCTCCA	360	
Db	628	AGACCAAACTTGAGACTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCTCCA	687	
QY	361	GGTAATGATGAACCTACACTGAGCAGATGGGCAACTGTGAGAGAAGGGTGAAGGATC	420	
Db	688	GGTAATGATGAACCTACACTGAGCAGATGGGCAACTGTGAGAGAAGGGTGAAGGATC	747	
QY	421	CACCTCACTCCTGATTTCAITTCAGGAAAAAAGTTAGCTCAATATGACACCAAGGTAGG	480	
Db	748	CACCTCACTCCTGATTTCAITTCAGGAAAAAAGTTAGCTCAATATGACACCAAGGTAGG	807	
QY	481	GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT	540	
Db	808	GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT	867	
QY	541	GAGAAATTCCTACTTTATCCAATGGAAGAAATACAAAGCAGTAAGATGTTTCAGCAGGTATTACT	600	
Db	868	GAGAAATTCCTACTTTATCCAATGGAAGAAATACAAAGCAGTAAGATGTTTCAGCAGGTATTACT	927	
QY	601	GGTACAAATGTAGTAAGAGTGTACGGGAGGCAAGCTGTTTACACCAAAAAGATGCACATTC	660	
Db	928	GGTACAAATGTAGTAAGAGAGTGTACGGGAGGCAAGCTGTTTACACCAAAAAGATGCACATTC	987	
QY	661	AATTAAGTACAGGACTCTATGAAAAGGATGTGAGTTTCTTCCCAATCCCGCCAGCG	720	
Db	988	AATTAAGTACAGGACTCTATGAAAAGGATGTGAGTTTCTTCCCAATCCCGCCAGCG	1047	
QY	721	GAGAAGGCTTCTATAATTTGTCACAAACATGTTGATTCATAGTTGAATTTGTACAGAA	780	

Db 1048 GAGAGGCTTCATATAATGTTTGACAAACATGTTGATTCTATAGTTGAATTCGTGACAGAA 1107  
QY 781 CAAAACCAACAAGAGCTCCAAACAAGCAAAATCAAAAATGCAATCTCCGAAGCACA 840  
Db 1108 CAAAACCAACAAGAGCTCCAAACAAGCAAAATCAAAAATGCAATCTCCGAAGCACA 1167  
QY 841 TGGGAAGTGAATCGGTGATTTGAGGACTTTAAGAAAACCACTCTATGACAAACAGCCA 900  
Db 1168 TGGGAAGTGAATCGGTGATTTGAGGACTTTAAGAAAACCACTCTATGACAAACAGCCA 1227  
QY 901 CCATATCCACCTTCTCATTTGCTGCAGATTGGACAAGAAATGTGTGTTAGTCCCTTGAC 960  
Db 1228 CCAATATCCACCTTCTCATTTGCTGCAGATTGGACAAGAAATGTGTGTTAGTCCCTTGAC 1287  
QY 961 AAATCTGGAAGCATGCGGACTGGTAACCGCTCAATCGACTGAATCAAGCAGGCCAGCTT 1020  
Db 1288 AAATCTGGAAGCATGCGGACTGGTAACCGCTCAATCGACTGAATCAAGCAGGCCAGCTT 1347  
QY 1021 TTCTCTGCTGCAGACAGTTGAGCTGGGCTCTGGGTTGGGATGGTGACATTTGACAGTCT 1080  
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QY 1081 GCCCATGTACAAGTGAATCATACAGATAAACAGTGGCAGTGACAGGGACACACTCGCC 1140  
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QY 1141 AAAAGATTACCTGCAGCAGCTTCAGGAGGAGCTGCATCTGCAGCGGCTTCGATCGGCA 1200  
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Db 1528 TTCTCTGCTGCAGACAGTTGAGCTGGGCTCTGGGTTGGGATGGTGACATTTGACAGTCT 1587  
QY 1261 GGGGAAGACAACTATAGTGGTCTTTACGAGGTCAACAAAGTGGTGGCCATCATC 1320  
Db 1588 GGGGAAGACAACTATAGTGGTCTTTACGAGGTCAACAAAGTGGTGGCCATCATC 1647  
QY 1321 CACACAGTCTGTTGGGCGCTCTGCAGCTCAAGAACTAGGAGCTGTCCAAAATGACA 1380  
Db 1648 CACACAGTCTGTTGGGCGCTCTGCAGCTCAAGAACTAGGAGCTGTCCAAAATGACA 1707  
QY 1381 GGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAAGCAAAATGGCCTCATTTGATGCTTTT 1440  
Db 1708 GGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAAGCAAAATGGCCTCATTTGATGCTTTT 1767  
QY 1441 GGGGCGCTTTTATCAGGAAATGAGTGTCTCTCAGCGCTCCATCAGCTTGAGAGTAAG 1500  
Db 1768 GGGGCGCTTTTATCAGGAAATGAGTGTCTCTCAGCGCTCCATCAGCTTGAGAGTAAG 1827  
QY 1501 GGATTAACCTCCAGAACAGCAGTGGATGAATGGCACAGTGTCTGGACAGCACCGTG 1560  
Db 1828 GGATTAACCTCCAGAACAGCAGTGGATGAATGGCACAGTGTCTGGACAGCACCGTG 1887  
QY 1561 GGAAGGACACATTTGTTCTTATCACTGGACAAACGAGCGCTCCCAAAATCTCTCTGG 1620  
Db 1888 GGAAGGACACATTTGTTCTTATCACTGGACAAACGAGCGCTCCCAAAATCTCTCTGG 1947  
QY 1621 GATCCAGTGGACAGAAAGTGGCTTTGATGGACAAAACCAAAAATGGCCTTAC 1680  
Db 1948 GATCCAGTGGACAGAAAGTGGCTTTGATGGACAAAACCAAAAATGGCCTTAC 2007  
QY 1681 CTCCTAATCCAGGCAATGCTAAGTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 1740  
Db 2008 CTCCTAATCCAGGCAATGCTAAGTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 2067  
QY 1741 CAAACCTTGAACCTGACTGTACGTCCTCGCTGCTCAATGCTACCTGCTCCAAATACA 1800  
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QY 1801 GTGACTTCCAAAACGAAACAGGACACACAGCAAAATCCCGAGCGCTCTGGTAGTTATGCA 1860

Db 2128 GTGACTTCCAAAACGAAACAGGACACAGCAAAATTTCCCGAGCCCTCTGGTAGTTATGCA 2187  
QY 1861 AATATTGCGCAAGAGCCCTCCCAATTTCTCAGGGCCAGTGTGCACAGCCCTGATTGAATCA 1920  
Db 2188 AATATTGCGCAAGAGCCCTCCCAATTTCTCAGGGCCAGTGTGCACAGCCCTGATTGAATCA 2247  
QY 1921 GTGAATGGAAGAAACAGTTTACCTTTGGAACCTACTTGGATTAATGGAGCAGGTCTGATGCTACT 1980  
Db 2248 GTGAATGGAAGAAACAGTTTACCTTTGGAACCTACTTGGATTAATGGAGCAGGTCTGATGCTACT 2307  
QY 1981 AAGGATGACGGGTCTTACTCAAGGTATTTCAAACTTATGACACGAATGTTAGATACAGT 2040  
Db 2308 AAGGATGACGGGTCTTACTCAAGGTATTTCAAACTTATGACACGAATGTTAGATACAGT 2367  
QY 2041 GTAAAAGTGCGGGCTCTGGGAGAGTTAACGCGACCGAGAGTATACCCCAAGCAG 2100  
Db 2368 GTAAAAGTGCGGGCTCTGGGAGAGTTAACGCGACCGAGAGTATACCCCAAGCAG 2427  
QY 2101 AGTGAGACACTGTACATACCTGGCTGGATGAGATGATGAATAAATCAATGGAATCCACCA 2160  
Db 2428 AGTGAGACACTGTACATACCTGGCTGGATGAGATGATGAATAAATCAATGGAATCCACCA 2487  
QY 2161 AGACCTGAAAATTAATAAGGATGATTTCAACCAAGCAAGTGTGTTTCAGCAGAAATCC 2220  
Db 2488 AGACCTGAAAATTAATAAGGATGATTTCAACCAAGCAAGTGTGTTTCAGCAGAAATCC 2547  
QY 2221 TCGGGAGGCTCATTTGTGGCTTCTGATGTCCCAAAATGCTCCCATACCTGATCTCTTCCCA 2280  
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QY 2281 CTGCGCAAAATCACCGACCTGAAAGCGGAAATTCACGGGGCAGTCTCATTAATCTGACT 2340  
Db 2608 CTGCGCAAAATCACCGACCTGAAAGCGGAAATTCACGGGGCAGTCTCATTAATCTGACT 2667  
QY 2341 TGGACAGCTCTCGGGGATGATTTATGACCAATGAAACAGCTCACAAAGTATATCATTCGAATA 2400  
Db 2668 TGGACAGCTCTCGGGGATGATTTATGACCAATGAAACAGCTCACAAAGTATATCATTCGAATA 2727  
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Db 2728 AGTACAAGTATTTCTTGATCTCAGAGACAAAGTTCATGAATCTCTTCAAGTGAATACTACT 2787  
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Db 2788 GCTCTCATCCCAAGGAAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACACAGAAAACAT 2847  
QY 2521 ACTTTTGAANAATGGCACAGATCTTTTTCATTTGCTATTTACGGCTGTTGATAGGTGATCTG 2580  
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Db 3028 ATTCTGGCAATTCACATTTTAAATAATGTTGGAAGTGAATGAGGAACTGCGAGCTGTCA 3087  
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Db 3088 ATAGCTAGGGCTGAATTTTGTGTCAGATAAATAAATAAATCATTCATCTCTT 3139

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Job time : 1508.4 secs

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: April 24, 2004, 00:33:00 ; Search time 258.572 Seconds  
(without alignments)  
6037.311 Million cell updates/sec

Title: US-09-049-696-18  
Perfect score: 2813  
Sequence: 1 GAAATCAGGAGATGTAC.....AAATAAATCATTCCTTA 2813

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents NA.\*  
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6: /cgn2\_6/prodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2807.2	99.8	3007	4	US-09-193-562D-27
2	2743	97.5	2745	4	US-09-623-624-5
3	1743	62.0	2931	4	US-09-623-624-1
4	1512	53.8	1512	4	US-09-016-434-850
5	1308.6	46.5	3043	4	US-09-049-698-16
6	1308.6	46.5	3181	4	US-09-049-698-18
7	900.2	32.0	3317	4	US-09-193-562D-1
8	840.6	29.9	3022	4	US-09-193-562D-33
9	832.6	29.6	3418	4	US-09-193-562D-29
10	780.8	27.8	878	1	US-08-469-667-8
11	780.8	27.8	878	4	US-09-224-110-8
12	780.8	27.8	878	5	PCr-US95-07289-8
13	554.6	19.7	2784	4	US-09-643-597-168
14	554.6	19.7	2784	4	US-09-480-884A-168
15	554.6	19.7	2784	4	US-09-542-615A-168
16	554.6	19.7	2784	4	US-09-606-421B-168
17	552.2	19.6	2773	4	US-09-643-597-358
18	552.2	19.6	2970	4	US-09-193-562D-31
19	552.2	19.6	3951	4	US-09-643-597-160
20	552.2	19.6	3951	4	US-09-480-884A-160
21	552.2	19.6	3951	4	US-09-542-615A-160
22	552.2	19.6	3951	4	US-09-606-421B-160
23	552.2	19.6	3951	4	US-09-221-107-160
24	552.2	19.6	8031	4	US-09-643-597-254
25	552.2	19.6	8031	4	US-09-480-884A-254
26	552.2	19.6	8031	4	US-09-542-615A-254
27	552.2	19.6	8031	4	US-09-606-421B-254

28	550.6	19.6	3190	4	US-09-623-624-3	Sequence 3, Appli
29	531.4	18.9	3156	4	US-09-919-172-86	Sequence 86, Appl
30	441.4	15.7	1081	4	US-09-016-434-928	Sequence 928, App
31	441.4	15.7	1399	4	US-09-049-698-17	Sequence 17, Appl
32	366	13.0	3362	4	US-09-643-597-167	Sequence 167, App
33	366	13.0	3362	4	US-09-480-884A-167	Sequence 167, App
34	366	13.0	3362	4	US-09-542-615A-167	Sequence 167, App
35	366	13.0	3362	4	US-09-606-421B-167	Sequence 167, App
36	323.8	11.5	401	3	US-09-221-298-34	Sequence 34, Appl
37	323.8	11.5	401	4	US-09-401-064-34	Sequence 34, Appl
38	309.2	11.0	619	4	US-09-016-434-931	Sequence 931, App
39	228.2	8.1	576	3	US-09-385-982-23	Sequence 23, Appl
40	223	7.9	232	4	US-09-016-434-230	Sequence 290, App
41	221.4	7.9	595	3	US-09-385-982-25	Sequence 25, Appl
42	200.8	7.1	618	3	US-09-385-982-24	Sequence 24, Appl
43	183.4	6.5	611	3	US-09-385-982-27	Sequence 27, Appl
44	168.6	6.0	742	3	US-09-385-982-33	Sequence 33, Appl
45	148.8	5.3	313	4	US-09-049-698-10	Sequence 10, Appl

ALIGNMENTS

RESULT 1

US-09-193-562D-27  
; Sequence 27, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 27  
; LENGTH: 3007  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-193-562D-27

Query Match		99.8%	Score 2807.2;	DB 4;	Length 3007;
Best Local Similarity		99.9%	Pred. No. 0;		
Matches 2809;		Conservative	0;	Mismatches	3;
				Indels	0;
				Gaps	0;
QY	1	GAAATCAGGAGATGTACAGCAATGGGGCCCAATTAAGAGTTCTGTGTTCACTTGTATT	60		
DB	23	GGAATCACAGGAGATGTACAGCAATGGGGCCCAATTAAGAGTTCTGTGTTCACTTGTATT	82		
QY	61	CTTCACTTCTAGAGGGCCCTGAGTAATTCACCTCATTGAGTCAACCAACTGCTAT	120		
DB	83	CTTCACTTCTAGAGGGCCCTGAGTAATTCACCTCATTGAGTCAACCAACTGCTAT	142		
QY	121	GAAGCATTGCTGTGCAATCGACCCCAATGCGCAGAGATGAACACTCATTCAACAA	180		
DB	143	GAAGCATTGCTGTGCAATCGACCCCAATGCGCAGAGATGAACACTCATTCAACAA	202		
QY	181	ATAAAGGACATGGTCAACCCAGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT	240		
DB	203	ATAAAGGACATGGTCAACCCAGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT	262		
QY	241	TATTTCAAAATGTTGCCATTTTGATTTCTGAAATCGAAGCAAGGCTCAGCTATG	300		
DB	263	TATTTCAAAATGTTTGCCATTTTGATTTCTGAAATCGAAGCAAGGCTCAGCTATG	322		
QY	301	AGACCAAACTTGAGACCTTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCA	360		
DB	323	AGACCAAACTTGAGACCTTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCA	382		
QY	361	GGAATGATGAACCTTACACTGAGCAGATGGCAACTGTGGAGAGAAAGGATC	420		



383 GGTAAATGATGAACCCCTACACTGAGCAGATGGGCAACTGTGGAGAGAAGGGTGAAGGATC 442  
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443 CACCTCACCTCCGATTTCAATTCGAGAAAGAAAGTTAGCTGAATATGGACCACAAGGTAGG 502  
481 GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT 540  
503 GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT 562  
541 GAGAAATCTCTATTCCTAATGGAAGATAACAAGCAGTAAGATGTTTCAGCAGGTATTAAT 600  
563 GAGAAATCTCTATTCCTAATGGAAGATAACAAGCAGTAAGATGTTTCAGCAGGTATTAAT 622  
601 GGTACAAATGTAAGTAAGAGTGTGAGGAGGAGCAGCTGTACACCAAAAGATGCAATTC 660  
623 GGTACAAATGTAAGTAAGAGTGTGAGGAGGAGCAGCTGTACACCAAAAGATGCAATTC 682  
661 AATAAAGTAACAGGACTCTATGAAAAGGATGTGAGTTGTTCTCCAATCCCGCCAGAGC 720  
683 AATAAAGTTACAGGACTCTATGAAAAGGATGTGAGTTGTTCTCCAATCCCGCCAGAGC 742  
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803 CAAACCAACAACAAGAGCTCCAAACAGCAAAATCAAATGCAATCTCCGAAGCACA 862  
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923 CCAATPCCACCTTCTCATTTGCTGCAGATTGGAACAAAGAAATTTGTGTTTGTAGTCCCTTGAC 982  
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1141 AAAAGATTACCTGCAGCAGCTTCAGGAGGAGCTCCATCTGACGGGGCTTCGATCGGCA 1200  
1163 AAAAGATTACCTGCAGCAGCTTCAGGAGGAGCTCCATCTGACGGGGCTTCGATCGGCA 1222  
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1223 TTCTACTGTGATTAGGAAGAAATATCAACTGATGGAATCTGAAATTTGTGCTGCTGACGGAT 1282  
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2003 AAGGATGACGGTGTCTACTCAAGGATTTTCAACCTTATGACACGAATGGTAGATACAGT 2062  
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DB 2603 AAATCAGAAATATCCAACTTGCACGAGTATCTTTGTTTATTCCTCCACAGACTCGGCCA 2662  
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DB 2663 GAGACACCTAGTCCCTGATGAACGCTGCTCTCTGCTTGTCTTAATATTCATATCAACAGCACC 2722  
QY 2701 ATTCTGGCAATTCACATTTTAAAAATTTATGTGGAAGTGGATAGGAACTGCAGCTGTCA 2760  
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QY 2761 ATAGCTAGGCTGAATTTTGTGAGATAAATAAATAAATCATTTCATCCTT 2812  
DB 2783 ATAGCTAGGCTGAATTTTGTGAGATAAATAAATAAATCATTTCATCCTT 2834

## RESULT 2

US-09-623-624-5  
; Sequence 5, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 2745  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1) .. (2742)  
US-09-623-624-5

Query Match 97.5%; Score 2743; DB 4; Length 2745;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 2743; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
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DB 1 ATGGGGCCATTAAAGAGTTCTGTGTTTCATCTTGATTTTCACCTTCTAGAGGGGCCCTG 60  
QY 85 AGTAATTCATCTCAGCTGAAACAAATGGCTATGAAGGCAATTTGCTGTTGCAATTCGAC 144

DB 61 AGTAATTCATCTCAGCTGAAACAAATGGCTATGAAGGCAATTTGCTGTTGCAATTCGAC 120  
QY 145 CCCAATGTGCCAAGAGTGAACACATCTTCAACAAATAAAGGACATGTGTGACCCAGGCA 204  
DB 121 CCCAATGTGCCAAGAGTGAACACATCTTCAACAAATAAAGGACATGTGTGACCCAGGCA 180  
QY 205 TCTCTGTATCTGTTTGAAGCTACAGAAAGCGATTTTATTTCAAAAATGTTGCCATTTTG 264  
DB 181 TCTCTGTATCTGTTTGAAGCTACAGAAAGCGATTTTATTTCAAAAATGTTGCCATTTTG 240  
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QY 325 AATGCTGATGTTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTGAG 384  
DB 301 AATGCTGATGTTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTGAG 360  
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DB 361 CAGATGGGCACTGTGGAGAAAGGTGAAGATCCACCTCACTCTCTGATTTCAATGCA 420  
QY 445 GGAATAAGTTAGCTGAATATGACACCAAGTAGGGCAATTTGTCCATCAGTGGGCTCAT 504  
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QY 505 CTACGATGGGAGTATTTGACGAGTACAATAATGATGAGAAATTTCTACTTTATCCAAATGA 564  
DB 481 CTACGATGGGAGTATTTGACGAGTACAATAATGATGAGAAATTTCTACTTTATCCAAATGA 540  
QY 565 AGAATAAAGCAAGTAAAGTGTTCAGCAGGTATTTACTGTGTAACAAATGTAGTAAGAGTGT 624  
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QY 625 CAGGAGGAGCTGTTTACACAAAGATGCAATTCATATAAAGTAAAGGACTCTATGAA 684  
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QY 805 AACAGCAAAATCAAAATGCAATCTCCAGACACATGGGAAAGTATCCGTGATTTCTGAG 864  
DB 781 AACAGCAAAATCAAAATGCAATCTCCAGACACATGGGAAAGTATCCGTGATTTCTGAG 840  
QY 865 GACTTTTAAAGAAACCACTCTTATGACACAGCCACCAAAATCCCACTTCTCATTGCTG 924  
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QY 925 CAGATTGGACAAAGAAATTTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTT 984  
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Qy 1225 CCAACTGATGGATCTGAAATTTGCTGCTGACGGATGGGGAAGACAACACTATAGTGG 1284  
Db 1201 CCAACTGATGGATCTGAAATTTGCTGCTGACGGATGGGGAAGACAACACTATAGTGG 1260  
Qy 1285 TGCCTTTAAGCAGGTCAAAACAAAGTGGTGCATCATCCACACAGTGGCTTTGGGGCCCTCT 1344  
Db 1261 TGCCTTTAAGCAGGTCAAAACAAAGTGGTGCATCATCCACACAGTGGCTTTGGGGCCCTCT 1320  
Qy 1345 GCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGGAGTTTACAGACATATGCTTCA 1404  
Db 1321 GCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGGAGTTTACAGACATATGCTTCA 1380  
Qy 1405 GATCAAGTTCAAGAACTAGAGGAGCTGTCCAAAATGACAGGAGTTTACAGACATATGCTTCA 1464  
Db 1381 GATCAAGTTCAAGAACTAGAGGAGCTGTCCAAAATGACAGGAGTTTACAGACATATGCTTCA 1440  
Qy 1465 GCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAAGGGATTAAACCTCCAGAACAGCCAG 1524  
Db 1441 GCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAAGGGATTAAACCTCCAGAACAGCCAG 1500  
Qy 1525 TGGATGAATGGCACAGTGTCTGGACAGCACCGTGGGAAAGACACTTTGTTTCTTATC 1584  
Db 1501 TGGATGAATGGCACAGTGTCTGGACAGCACCGTGGGAAAGACACTTTGTTTCTTATC 1560  
Qy 1585 ACTTGACAAACGAGCGCTCCCAAAATCCCTTCTCTGGGATCCAGTGGGACAGAGCAAGT 1644  
Db 1561 ACTTGACAAACGAGCGCTCCCAAAATCCCTTCTCTGGGATCCAGTGGGACAGAGCAAGT 1620  
Qy 1645 GGCCTTTGATGGACAAAACACCAAAATGGCTTACTCTCAAAATCCAGGCAATGCTAAG 1704  
Db 1621 GGCCTTTGATGGACAAAACACCAAAATGGCTTACTCTCAAAATCCAGGCAATGCTAAG 1680  
Qy 1705 GTTGGCACTTGGAAATFACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTCAAG 1764  
Db 1681 GTTGGCACTTGGAAATFACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTCAAG 1740  
Qy 1765 TCCGTGCTCCATGCTACCTGCTCCATTAAGTACAGTCACTTCCAAAACGACAGGAC 1824  
Db 1741 TCCGTGCTCCATGCTACCTGCTCCATTAAGTACAGTCACTTCCAAAACGACAGGAC 1800  
Qy 1825 ACCAGCAAAATCCCAAGCGCTCTGGTGTGTTATGCAAAATATTCGCAAGAGCGCTCCCA 1884  
Db 1801 ACCAGCAAAATCCCAAGCGCTCTGGTGTGTTATGCAAAATATTCGCAAGAGCGCTCCCA 1860  
Qy 1885 ATTCTCAGGGCCAGTGTCAAGCCCTGATTTGAATCAGTCAATGGAAGAAACAGTTACCTTG 1944  
Db 1861 ATTCTCAGGGCCAGTGTCAAGCCCTGATTTGAATCAGTCAATGGAAGAAACAGTTACCTTG 1920  
Qy 1945 GAACCTACTGGATAATGGACAGGTGTGATGCTACTAAGGATGACGGTGTCTACTCAAG 2004  
Db 1921 GAACCTACTGGATAATGGACAGGTGTGATGCTACTAAGGATGACGGTGTCTACTCAAG 1980  
Qy 2005 TATTTTCACAACTTATGACACGAATGTGATACAGTGAAGAGTGGGCTCTGGGAGGA 2064  
Db 1981 TATTTTCACAACTTATGACACGAATGTGATACAGTGAAGAGTGGGCTCTGGGAGGA 2040  
Qy 2065 GTTAAACGACGACGAGAGTGTATACCCAGCAGAGTGGAGCACTGTACATACCTGGC 2124  
Db 2041 GTTAAACGACGACGAGAGTGTATACCCAGCAGAGTGGAGCACTGTACATACCTGGC 2100  
Qy 2125 TGGATTGAGAAATGAGAAATACAAATGGAATCCCAAGACCTGGAATTAATGAAGATGAT 2184  
Db 2101 TGGATTGAGAAATGAGAAATACAAATGGAATCCCAAGACCTGGAATTAATGAAGATGAT 2160  
Qy 2185 GTTAAACGACGAGAGTGTGTTTACAGCAAAATCTCCGGAGGCTCAATTTGGGCTTCT 2244  
Db 2161 GTTAAACGACGAGAGTGTGTTTACAGCAAAATCTCCGGAGGCTCAATTTGGGCTTCT 2220  
Qy 2245 GATGTCCCAAAATGCTCCCAATACCTGATCTCTTCCCACTGGCCAAATACCGACCTGAAG 2304  
Db 2221 GATGTCCCAAAATGCTCCCAATACCTGATCTCTTCCCACTGGCCAAATACCGACCTGAAG 2280

Qy 2305 GCGAAATTCAGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGATGATTAT 2364  
Db 2281 GCGAAATTCAGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGATGATTAT 2340  
Qy 2365 GACCATGGAACAGCTCACAAGTATATCATTCGAATAGTACAAATGATTTCTTGTATCTCAGA 2424  
Db 2341 GACCATGGAACAGCTCACAAGTATATCATTCGAATAGTACAAATGATTTCTTGTATCTCAGA 2400  
Qy 2425 GACAAGTTCAATGATCTCTTCAAGTGAATACTACTCTCTCATCCCAAGAGGCCAAC 2484  
Db 2401 GACAAGTTCAATGATCTCTTCAAGTGAATACTACTCTCTCATCCCAAGAGGCCAAC 2460  
Qy 2485 TCTGAGGAAGTCTTTTCTTTAAACACAGAAACATTTACTTTTGAATAATGGACAGATCTT 2544  
Db 2461 TCTGAGGAAGTCTTTTCTTTAAACACAGAAACATTTACTTTTGAATAATGGACAGATCTT 2520  
Qy 2545 TTCAATTTGCTATTTCAAGGCTTTGATAAGTTCGATCTGAAATCAGAAATATCCAAACATTGCA 2604  
Db 2521 TTCAATTTGCTATTTCAAGGCTTTGATAAGTTCGATCTGAAATCAGAAATATCCAAACATTGCA 2580  
Qy 2605 CGAGTATCTTTGTTTATTTCTCCACAGACTCGGCCAGAGACACCTAGTCTCTGATGAACG 2664  
Db 2581 CGAGTATCTTTGTTTATTTCTCCACAGACTCGGCCAGAGACACCTAGTCTCTGATGAACG 2640  
Qy 2665 TCTGCTCTCTGCTCTTAATTAATTAATCAACAGCACCATTTCTGGCATTCACATTTTAAA 2724  
Db 2641 TCTGCTCTCTGCTCTTAATTAATTAATCAACAGCACCATTTCTGGCATTCACATTTTAAA 2700  
Qy 2725 ATTATGTGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCCTAG 2769  
Db 2701 ATTATGTGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCCTAG 2745

## RESULT 3

US-09-623-624-1  
; Sequence 1, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1



1988 AGGTTTTTTACAGCTTTTGATGCAAAATGGTAGATACAGCGTTAAAAATATGGGCTCTGGCA 2047  
2062 GGGTTTAAAGCAGCCAGACGGAGAGTGATACCCAGCAGAGTGGAGCAGCTGTACATACCT 2121  
2048 GGGAGTCACTTCAGACAGACAGAGCAGCAGCTCCGAAGAACAGACCCATGTACATAGAT 2107  
2122 GGGCTGATTGAGAAATGATGAAATACAAATGGAATCCACCAAGACCTGAAATTAATAGGAT 2181  
2108 GGGCTGATTGAGATGGTGAATGAATGAACCCACACAGCTCTGAACTAGTT----- 2162  
2182 GATGTTCAACACAGCAAGAGTGTGTTTTCAGCAGAACATCTCCGGAGGCTCATTTGTGGCT 2241  
2163 -ATGTTCAAGACAAAGCAGCTGTGCTTTTCAGCAGACATCTTCAGGGGGAATGTTTGTGGCC 2221  
2242 TCTGATGTCC--CAATGCTCCATACCTGATCTCTTCCACCTGCGCAATATCCCGAC 2298  
2222 ACCAATGTCCCGCAGCAGCTCCATTCCTGACCTCTTTCCACCTGTCAAAATCACTGAC 2281  
2299 CTGAAGCGGGAATTCACGGGGGAGCTCTCATTAATCTGACTTGGACAGCTCTCTGGGGAT 2358  
2282 CTGAAGCGCAGATCCAGGGCAGAACCTGGTGAATCTGACGTGGAGCGCTCTCTGGGAT 2341  
2359 GATTATGACATGAAGACAGCTCAAGATATATCATTCGAATAGTACAAGTATCTTGAT 2418  
2342 GACTACGACCAAGGAGAGCTTCCAACTATCATCCGAATGAGCAGCAGTATGTTGAT 2401  
2419 CTCAGACAGAGTTCAATGAATCTTCAAGTGAATACTACTGCTCTCATCCCAAGGAA 2478  
2402 CTCAGGGACCACTTCAACACCTCACTCCAAGTGAACACTACCGGTCTTATCCCAAGAG 2461  
2479 GCCAATCTTGAGGAAGCTTTTTGTTTAAACACAGAAACATTAATCTTTGAAATGGCACA 2538  
2462 GCCAGCTCTGAGGAATCTTTGATTTGATTTGAACTGGGAGGCAACCTTTTGGAAATGGCACA 2521  
2539 GATCTTTTCAATGCTATTGAGGCTGTGATGAAGGTGATCTGAAATCAGAAATATCCAA 2598  
2522 GATATCTTCAATGCTATCCAGGCTGTGATGAAGTCAATCTGAAATCAGAAATCTCCAAC 2581  
2599 ATTGACAGAGTATCTTTGTTTATTTCTCCACAGACCTCCCGCAGACACCTAGTCTGAT 2658  
2582 ATTGACGGGTGTCTGTGTTTCACTCCCGCTCAG-----GAGCGGCCCATTTCCGAA 2632  
2659 GAAACGCTGCTCTCTGCTTAATATTCATATCAACAGCAGCACTCTCTGGCATTTCAT 2718  
2633 GACTCAATCTCCCTGCTGCTGATCAGCATCAGCATCAACAGACCACTCTCTGGCATCCAGTG 2692  
2719 TTAATAATATGTGGAAGTGGATPAGAGAACTGACAGCTGTCAATAGCTTAGGGCTGAAT 2778  
2693 CTGAAGATAATGTGGAAGTGGCTAGGGGAAATGCGAGTGAACACTAGGTTTGACCTGAAT 2752  
2779 TTTGTCAGATTAATAA 2795  
2753 TTCAGGCAAGAAATCAA 2769

## RESULT 4

US-09-016-434-850  
; Sequence 850, Application US/09016434  
; Patent No. 6500938  
; GENERAL INFORMATION:  
; APPLICANT: Janice Au-Young  
; APPLICANT: Jeffrey J. Seilhamer  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION  
; NUMBER OF SEQUENCES: 1490  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
CURRENT APPLICATION DATA:  
APPLICANT NUMBER: US/09/016.434  
FILING DATE: HEREWITH  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Zeller, Karen J.  
REGISTRATION NUMBER: 37,071  
REFERENCE/DOCKET NUMBER: PA-0002 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (650) 855-0555  
TELEFAX: (650) 845-4166  
INFORMATION FOR SEQ ID NO: 850:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1512 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: COLN0T01  
CLONE: 608819  
US-09-016-434-850

Query Match 53.8%; Score 1512; DB 4; Length 1512;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1512; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1301 AACAAAGTGTGCCATCATCCACAGTCGCTTTGGGGCCCTCTCGAGCTCAAGAACTAG 1360  
DB 1 AACAAAGTGTGCCATCATCCACAGTCGCTTTGGGGCCCTCTCGAGCTCAAGAACTAG 60  
QY 1361 AGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGAA 1420  
DB 61 AGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGAA 120  
QY 1421 ATGGGCTCATTCATGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCT 1480  
DB 121 ATGGGCTCATTCATGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCT 180  
QY 1481 CCATCCAGCTTGAGAGTAAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCAG 1540  
DB 181 CCATCCAGCTTGAGAGTAAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCAG 240  
QY 1541 TGATCGTGGACAGCACCGTGGGAAAGGACACTTTGTTTCTTATCACCTGGCAACGCGAC 1600  
DB 241 TGATCGTGGACAGCACCGTGGGAAAGGACACTTTGTTTCTTATCACCTGGCAACGCGAC 300  
QY 1601 CTCCCAAAATCTCTCTGGGATCCAGTGGACAGAAAGGAGTGGCTTTGTAGTGGCA 1660  
DB 301 CTCCCAAAATCTCTCTGGGATCCAGTGGACAGAAAGGAGTGGCTTTGTAGTGGCA 360  
QY 1661 AAAACACCAAAATGGCTTACCTCCAAATCCCAAGGCAATGTCTAAGGTGGCACTTGGAAAT 1720  
DB 361 AAAACACCAAAATGGCTTACCTCCAAATCCCAAGGCAATGTCTAAGGTGGCACTTGGAAAT 420  
QY 1721 ACAGTCTGCAAGCAGCTCAAAACCTTGACCTGACCTGCTCAGCTCCCGTGGCTCCAATG 1780  
DB 421 ACAGTCTGCAAGCAGCTCAAAACCTTGACCTGACCTGCTCAGCTCCCGTGGCTCCAATG 480  
QY 1781 CTACCTGCTCTCAATTTACAGTGAATTCMAAAACGAAAGGACACCAAGCAATTCCTCCA 1840  
DB 481 CTACCTGCTCTCAATTTACAGTGAATTCMAAAACGAAAGGACACCAAGCAATTCCTCCA 540  
QY 1841 GCCCTCTGGTATGTTTATGCAATATTCGCAAGAGGCTTCCCAATTTCTCAGGGCCAGTG 1900  
DB 541 GCCCTCTGGTATGTTTATGCAATATTCGCAAGAGGCTTCCCAATTTCTCAGGGCCAGTG 600

QY 1901 TCACAGCCCTGATGTAATCAGTGAATGGAAGAAACAGTTACCTTGGAACTACTGGAATAATG 1960  
DB |||||  
601 TCACAGCCCTGATGTAATCAGTGAATGGAAGAAACAGTTACCTTGGAACTACTGGAATAATG 660  
QY 1961 GAGCAGCTGCTGATGCTACTTAAGGATGACGGTCTCTACTCAAGGTATTTACAACTTATG 2020  
DB |||||  
661 GAGCAGCTGCTGATGCTACTTAAGGATGACGGTCTCTACTCAAGGTATTTACAACTTATG 720  
QY 2021 ACACGAATGATAGATACAGTGTAAAGTGGGGCTCTGGGAGAGTTAAAGCGAGCCAGAC 2080  
DB |||||  
721 ACACGAATGATAGATACAGTGTAAAGTGGGGCTCTGGGAGAGTTAAAGCGAGCCAGAC 780  
QY 2081 GGAGAGTATACCCAGCAGAGTGGAGCACTGTACATACCTGCTGGATTTGAGAATGATG 2140  
DB |||||  
781 GGAGAGTATACCCAGCAGAGTGGAGCACTGTACATACCTGCTGGATTTGAGAATGATG 840  
QY 2141 AAATACATGGAATCCACCAAGACCTGAAATTAAGGATGATGTTCAACACAAGCAAG 2200  
DB |||||  
841 AAATACATGGAATCCACCAAGACCTGAAATTAAGGATGATGTTCAACACAAGCAAG 900  
QY 2201 TGTGTTTCAGCAGAAATCTCCGGAGGCTCATTTGTGGCTTCTGATGTCCTCCAAATGCTC 2260  
DB |||||  
901 TGTGTTTCAGCAGAAATCTCCGGAGGCTCATTTGTGGCTTCTGATGTCCTCCAAATGCTC 960  
QY 2261 CCATACCTGATCTCTTCCCACTGGCCAAATCACCGACCTGAAGCGGAAATTCACGGGG 2320  
DB |||||  
961 CCATACCTGATCTCTTCCCACTGGCCAAATCACCGACCTGAAGCGGAAATTCACGGGG 1020  
QY 2321 GCAGTCTCATTAATCTGACTTGGACAGCTCTGGGGATGATATGACCATGGAAGCTC 2380  
DB |||||  
1021 GCAGTCTCATTAATCTGACTTGGACAGCTCTGGGGATGATATGACCATGGAAGCTC 1080  
QY 2381 ACAAGTATATCATTCGAATAAGTACAAATCTTCTGATCTCAGACAAAGTTCATGAAT 2440  
DB |||||  
1081 ACAAGTATATCATTCGAATAAGTACAAATCTTCTGATCTCAGACAAAGTTCATGAAT 1140  
QY 2441 CTCTCAAGTGAATATCTGCTCTCATCCCAAGGAAGCCAACTCTGAGGAAGTCTTTT 2500  
DB |||||  
1141 CTCTCAAGTGAATATCTGCTCTCATCCCAAGGAAGCCAACTCTGAGGAAGTCTTTT 1200  
QY 2501 TGTGTTAAACAGAAACATTTCTGAAATGGAAGGACAGATCTTTTCATGCTATTCAGG 2560  
DB |||||  
1201 TGTGTTAAACAGAAACATTTCTGAAATGGAAGGACAGATCTTTTCATGCTATTCAGG 1260  
QY 2561 CTGTTGATAGGTCGATCTGAAATCAGAAATATCCAACTTGCACGAGTATCTTCTTTA 2620  
DB |||||  
1261 CTGTTGATAGGTCGATCTGAAATCAGAAATATCCAACTTGCACGAGTATCTTCTTTA 1320  
QY 2621 TTCTCCACAGACTCCGCCAGAGACACCTAGTCTCTGATGAAAGCTCTGCTCTTCTTCTTA 2680  
DB |||||  
1321 TTCTCCACAGACTCCGCCAGAGACACCTAGTCTCTGATGAAAGCTCTGCTCTTCTTCTTA 1380  
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DB |||||  
1381 ATATTATATCAACAGACATCTCTGGCATTCACATTTTAAATATATGGAAGTGA 1440  
QY 2741 TAGGAACTGAGCTGTCAATAGCCTAGGGCTGAAATTTTGTGAGATAAATAAATAA 2800  
DB |||||  
1441 TAGGAACTGAGCTGTCAATAGCCTAGGGCTGAAATTTTGTGAGATAAATAAATAA 1500  
QY 2801 TCATTTCATCCTT 2812  
DB |||||  
1501 TCATTTCATCCTT 1512

## RESULT 5

US-09-049-698-16  
; Sequence 16, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE

APPLICANT: COLPITTS, TRACEY L.  
APPLICANT: FRIEDMAN, PAULA N.  
APPLICANT: HAYDEN, MARK  
APPLICANT: KLASS, MICHAEL R.  
APPLICANT: ROBERTS-RAPP, LISA  
APPLICANT: RUSSELL, JOHN C.  
APPLICANT: STROUPE, STEPHEN D.  
TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
TITLE OF INVENTION: TRACT  
NUMBER OF SEQUENCES: 51  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Abbott Laboratories  
STREET: 100 Abbott Park Road  
CITY: Abbott Park  
STATE: IL  
COUNTRY: USA  
ZIP: 60064-3500  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/049,698  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/828,856  
FILING DATE: 31-MAR-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Becker, Cheryl L.  
REGISTRATION NUMBER: 35,441  
REFERENCE/DOCKET NUMBER: 6068.US.P1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 847/935-1729  
TELEFAX: 847/938-2623  
TELEX:  
INFORMATION FOR SEQ ID NO: 16:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 3043 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-09-049-698-16

Query Match 46.5%; Score 1308.6; DB 4; Length 3043;

Best Local Similarity 69.6%; Pred. No. 0;

Matches 1866; Conservative 0; Mismatches 794; Indels 21; Gaps 6;

QY 21 AGCAATGGGGCCATTTAAGAGTTCTGTGTTTCATTTGATTTTACCTTCTAGAAGGGC 80  
DB |||||  
10 AACATGGGGTTATTCAGAGGTTTGTTCCTTCTTGTGCTCTGCCTCTGCACAGTC 69  
QY 81 CTTGAGTAATTCACCTCATTACCTGAACCAACAAATGGCTATGAAGGCAATTTGCTTCAAT 140  
DB |||||  
70 ---AAATCTCTCTTCAATTAAGCTGAATAATAATGCTTTTGAAGATATTTGCTTAT 126  
QY 141 CGACCCCAATGTGCAGAGATGAACACTATTCACAAATAAAGGACATGTTGACCA 200  
DB |||||  
127 AGATCCTAGTGTGCCAGAGATGAAAAATAATTCACAAATAGAGATATGTTGACTAC 186  
QY 201 GGCATCTCTGTATCTGTTTGAAGCTACAGGAAGGATTTTATTTTCAAAAATGTTGCCAT 260  
DB |||||  
187 AGCTTCTAGTACCTGTTTGAAGCCACAGAAAAAGATTTTTTTTCAAAAATGTTATCTAT 246  
QY 261 TTTGATTCCTGAAACATGGAAGCAAGGCTGACTATGTGAGACCAAAACCTTTGAGACCTA 320  
DB |||||  
247 ATTAATTCCTGAGATTTGAAGGAAAAATCTCAGTACAAAAGGCCAAAACATGAAAAACCA 306  
QY 321 CAAAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCCAGGTATGATGAACCTTACAC 380  
DB |||||  
307 TAAACATGCTGATGTTATAGTTGCACCACTACACTCCAGGTAGAGATGAACCACTACAC 366

Qy		381	TGAGCAGATGGGCAACTGTGGAGAGAAGGTGAAGGATCCACCTCACTCCTCATTTTCAT	440
Db		367	CAAGCAGTTCACAGAATGTGGAGAGAAGCGAATACATTCACTTCACCCTGCACCTTCT	426
Qy		441	TGCAGGAAAAAGTTAGCTGAATATGACACACAAGAGTAGGCCATTTGTTCATCAGTGGGC	500
Db		427	ACTTGAAAAAAAACAAATGAATATGACACACAGGCAAACTGTGTTGTCTCATCAGTGGGC	486
Qy		501	TCATCTACGATGGGAGTATTTGACGAGTAGTACAATAATGATGAGAAATTCCTACTTATCCAA	560
Db		487	TCACCTCCGGTGGGAGTGTTGATGAGTACAATGAAGATCAGCCTTCTACCGTGTCTAA	546
Qy		561	- - - TGGAAGAAATACAACGACGTAAAGATGTTTCAGCAGGTATTACTGGTACAAATGTAGTAAA	617
Db		547	GTCAAAAAAATCGAACCAACAGGTGTTCCGCAGGTATCTCTGGTAGAATAAGAGTTTTA	606
Qy		618	GAAGTGTCAAGGAGGACGTGTTTACACCAAAGATGCACATTCAAATAAAGTAACAGGACT	677
Db		607	TAAGTGTCAAGGAGGACGTGTTCTTAGTAGCATGCAGAAATGATTTCTTCAACAACAAACT	666
Qy		678	CTATGAAAAAGGATGTGAGTTGTTCTCCAATCCC GCACACGAGGAGAGCTTCTATAAT	737
Db		667	GTATGAAAAAGATGTCAAATCTTCTCTGATAAGTACAAACAGAAAAGCATCCATAAT	726
Qy		738	GTTTGACACAACTGTTGATTTCTATAGTTGAATTTCTGTACAGAACAAACACCAACAAGA	797
Db		727	GTTTATGCAAGATTTGATTTCTGTTGTAATTTTGTACGAAAAAACCATTAATCAAGA	786
Qy		798	AGTCTCAAAACAAGCAAAATCAAAAATGCAATCTCCGAAGCACATGGGAAGTGATCCGTGA	857
Db		787	AGCTCCAAAGCTACAAAACATAAAGTGCAATTTTAGAAGTACATGGGAGGTGATTAGCAA	846
Qy		858	TTCTGAGGACTTTAAGAAAAACCACTCCTATGACAAACAGCCACCAATCCCACCTTCTC	917
Db		847	TTCTGAGGATTTTAAAAAACCAATACCCTATGGTGACACACCTCTCCACCTGTCTTCTC	906
Qy		918	ATTGCTCAGATTGGACAAAAGATTGTGTGTTAGTCTTTGACAAATCTCGAAGCATGGC	977
Db		907	ATTGCTGAAGATCAGTCAAGAAATTTGTGCTTAGTTC TTGATAGTCTGGAAGCATGGG	966
Qy		978	GACTGTGAACCGCTCAATCGACTGAATCAAGCAGGCCAGCTTTTCTGCTCAGACAGT	1037
Db		967	GGGTAAAGGACCGCTAAATCGAATGAATCAAGCAGCAAAAACATTTCTGCTGCAGACTGT	1026
Qy		1038	TGAGCTGGGTCTGGGTTGGGATGGTGACATTTGACAGTGTCTGCCCATGTACAAAGTGA	1097
Db		1027	TGAAAATGSAATCTCGGTGGGGATGGTTCATTTTGATAGTACTGCCACTATTGTAATAA	1086
Qy		1098	ACTCATACAGATAAACAGTGGCAGTGACGGGACACACTCGCCAAAAGATTACTGTCAGC	1157
Db		1087	GCTAATCCAATTAANAAGCAGTGANAGAAAGAACACACTCATGGCAGGATTACTTACATA	1146
Qy		1158	AGCTTCAGGAGGACGTCCTCACTCGACGGGCTTCGATCGGCATTTACTGTGATTAGGAA	1217
Db		1147	TCCTCTGGGAGGAATTCCTCATCTGCTGGAATTAATATATGCAATTCAGGTGATTGGAGA	1206
Qy		1218	GAAATAT- - - CCAACTGATGGATCTGAAATTTGTGCTGCTGACGGATGGGGAAGACACAC	1274
Db		1207	GCTACATTCCEAACTCGATGGATCCGAAGTACTGCTGCTGACTGATGGGAGGATAACAC	1266
Qy		1275	TATAAGTGGGTGCTTTTAACGAGGTCAAAACAAAGTGGTGCCATCATCCACACAGTCGCTTT	1334
Db		1267	TGCAGTCTTTGATTGATGAAGTGAACAAAGTGGGGCCATTTGTTCAITTTTATTCGCTTT	1326
Qy		1335	GGGGCCCTCTGCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGGAGGTTTACAGAC	1394
Db		1327	GGGAAGAGCTGCTGATGAAGCAGTAAATAGAGATGAGCAAGATAACAGAGGAAGTCAATTT	1386
Qy		1395	ATATGCTTCAGATCAAGTTCAGAACAAATGGCTCATTTGATGCTTTTGGGGCCCTTTTCATC	1454
Db		1387	TTATGTTTCAGATGAAGCTCAGAACAAATGGCTCATTTGATGCTTTTGGGGCTCTTACATC	1446

QY	1455	AGGAAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGGAGAGTAAGGGATTAACCCCTCCA	1511
DB	1447	AGGAAATACTGATCTCTCCAGAAAGTCCCTTCAGCTCGAAAGTAAGGGATTAACACTGAA	1506
QY	1515	GAAACAGCCAGTGGATGAATGGCAGCAGTGATCGTGGACAGCACCGTGGGAAAGACACTTT	1574
DB	1507	TAGTAATGCCCTGGATGAACGACACTGTCTAAATTGATGTACAGTGGGAAGGACACGTT	1566
QY	1575	GTTTCTTTATCACTCTGGCAACGCGAGCTCCCCAAATCCTTCTCTGGGATCCCAAGTGACA	1634
DB	1567	CTTTCTCATACATGGAAACAGTCTGCTCCAGTATTTCTCTCTGGATCCCAAGTGAAC	1626
QY	1635	GAAGCAAGTGGCTTTGTAGTGACAAAAACAACAAAATGGCTACTCTCAAAATCCGAG	1694
DB	1627	AATAATGGAAAAATTTACAGTGGATGCAACTTCCAAAATGGCTATCTCAGTATTCAGG	1686
QY	1695	CATTGCTAAGGTTGGCACTTTGGAAATACAGTCTGC-----AGCAAGCTCAAAAACCTT	1748
DB	1687	AACTGCAAAAGGTGGCACTTTGGGCATACAATCTTCAAGCCAAAGCGAACCCAGAAACATT	1746
QY	1749	GACCTGACTGTCTCAGCTCCGCTGGTCCAATGTCTACCTGCTCCCAATACAGTGACTTC	1808
DB	1747	AACATTATACAGTAACCTTCTCAGCAGCAAAATCTTCTGTGCTCTCCAATCACAGTGAATGC	1806
QY	1809	CAAAACGAAACAGGACACCAAGCAAAATCCCGAGCCCTCTGGTAGTTTATGCAAAATATCG	1868
DB	1807	TAAATGAATAAGGACGTAAACAGTTTCCCGAGCCCAANTGATTTGTTCACGAGAAATTTCT	1866
QY	1869	CAAAGGAGCTCCCAATTTCTCAGGGCCAGTGTCAAGCCCTGATTTGAATCAGTGAATGG	1928
DB	1867	ACAAGGATATGTACCTCTTCTTGAGAGCAATGTGACTGTCTTTCAATGAATCACAGAATGG	1926
QY	1929	AAAAACAGTTTACCTTTGGAACTACTTGGATAATGGAGCAGGTGCTGATCTACTAAGGATGA	1988
DB	1927	ACATACAGAAGTTTGGAACTTTTGGATAATGGTCAGGCGCTGATTTCTTTCAAGAATGA	1986
QY	1989	CGGTGCTCTACTCAAGSTATTTCACACTTATGACAGAAATGGTAGATACAGTGTAAAAGT	2048
DB	1987	TGGAGTCTACTCCAGGTATTTTACAGCATATACAGAAAATGGCAGATATAGCTTAAAAGT	2046
QY	2049	GCGGGCTCTGGAGGAGTTAAACGACCCAGACGGAGAGTGATACCCAGCAGAGTGGAGC	2108
DB	2047	TCGGGCTCATGGAGGACAAACACTGCGAGGCTTAAATTTACGGCGCTCCACTGAATAGAGC	2106
QY	2109	ACTGTACATACCTGGCTGGATTCGAGAAATGAAATAAATGAAATCCACCAAGACCTGA	2168
DB	2107	CGCGTACATACAGGCTGGGTAGTGAACGGGGAATTTGAAGCAAAACCCGCCAAGACCTGA	2166
QY	2169	AATTAATAAGGATGATGTTTCAACACAGCAAGTGTGTTTTCAGCAGAAACATCTCGGAGG	2228
DB	2167	AATTTGAT--GAGGATACTCAGACCCTTTGGAGGATTTTCAGCCGAACAGCATCCGAGG	2223
QY	2229	CTCAATTTGGCTTCTGATGTGCCAAATGTCTCCATACCTGATCTCTTTCCCACTGGCCCA	2288
DB	2224	TGCATTTGTGTATACAAAGTCCCAAGCTTTCGCTTGGCTGAGCAATATACCCACCAAGTCA	2283
QY	2289	AATCACCGACTGAGGCGGAAATTCACGGGGGAGTCTCATTAATCTGACTTTGGACAGC	2348
DB	2284	AATCACAGACCTTGATGCCACAGTTCAATGAGG--ATAAGATTATTTTACATGGGACGC	2340
QY	2349	TCCTGGGGATGATTATACCATGAAACAGCTCAAGATATATCATTCGAAATAAGTACAAG	2408
DB	2341	ACCAGGAGATAATTTTGAATGTTGGAAAAGTTCAACGTTTATATCATAGAATTAAGTGAAG	2400
QY	2409	TATTTCTTGATCTCAGAGCAAGTTTCAATGAATCTCTTTCAGAGTGAATACTACTGCTCAT	2468
DB	2401	TATTTCTTGATCTAAGAGACAGTTTTCGATGATGCTCTTCTTCAAGTAAATACTACTGCTGC	2460
QY	2469	CCCAAGGAGCCAACTCTCAGGAAGTCTTTTGTTTTAAACCAAGAAACATTACTTTTGA	2528
DB	2461	ACCAAGAGGCGCCAACTCCAGGAAAGCTTTGCAATTTTAAACCAAGAAATATCTCAGAGA	2520
QY	2529	AAATGGCAGACAGATCTTTTTCATGTCTATTCAGGCTGTTTGATTAAGGCTGATCTGAAATCAGA	2588









Db 2431 AAGGAAAGCCACAGCTACATTATAAGAAATAGTAAGAGTTTCATGATCGTCAAGAAG 2490  
Qy 2429 AGTTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAGGAAGCAACTCTG 2488  
Db 2491 ATTTTGAACAATCGCACTTTAGTGAATACTTCTTAATCTAATACCTAAGGAGGCCGATCAA 2550  
Qy 2489 AGGAAGTCTTTTGTGTTAAACCCAGAAAACATTACTTTTGAATAATGGCACAGATCTTTTCA 2548  
Db 2551 AAAAAATTTTGAATTTAAGCCAGAACATTTTAGAGTAGAATAATGGACCAATTTCTATA 2610  
Qy 2549 TTGCTATTACAGCTCTTGATAAGTTCGATCTGAAATCAGAAATATCCAACATTTGCACGAG 2608  
Db 2611 TTTTCAAGTCAAGCCATCAAGGAAGCAATCTCATCTCAGAGGTTTCTCACATTTGTACAAG 2670  
Qy 2609 TATCTTTGTTTATCTCTCCAC 2629  
Db 2671 CAATCAAAATTTATCTCTTAC 2691

## RESULT 8

US-09-193-562D-33  
; Sequence 33, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 33  
; LENGTH: 3022  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-09-193-562D-33

Query Match 29.9%; Score 840.6; DB 4; Length 3022;  
Best Local Similarity 60.5%; Pred. No. 2e-246;  
Matches 1554; Conservative 0; Mismatches 974; Indels 39; Gaps 9;  
Qy 91 TCACTCATTACGCTGAACCAACATGGCTATGAAGCAATGCTGTCATCGACCCCAAT 150  
Db 81 TCCATGGTGCATCTCAACAGCAATGGATACGAGGGTGTGTCATTGCCATTAAACCCCAAT 140  
Qy 151 GTCCAGAGATGAACACTCAATCAACAAATAAAGGACATGGTGACCCAGGCACTCTCTG 210  
Db 141 GTGCCAGAGGAGAAAGGCTCATCCNAGCATAAAGGAAATGTAATCAAGCTTCTACC 200  
Qy 211 TATCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAATATGTTGCCATTTGATCTCT 270  
Db 201 TACCTGTTGAAGCCAGCAAGCAAGAGTTTATTTTCAAGCAATAGCATATTAAGTCCCG 260  
Qy 271 GAAACATGGAACAAAGGCTGACTATGTGACACCAAACTTGAGCCCTACAAAATGCT 330  
Db 261 ATGACCTGGAAGTGAATCTTGAATCTTAAATGTCGAAATCGTACGACAAAGCA 320  
Qy 331 GATGTTCTGTTGCTGAGTCTACTCTCTCAGGTAATGTAACCCCTACACTGAGCAGATG 390  
Db 321 GACGTCATAGTTGCGATCCTCACCTGCAACATGGAGAGCACCCTACACCCCTTCAGTAT 380  
Qy 391 GGCATCTGTGGAGAGAGGTTGAAGGATCCACCTGACTCTCTGATTTTCAATGTCAGGAAAA 450  
Db 381 GGACAGTGTGGGACAGAGGACATACATACACTTCACTCCAAACTTCTACTACTCATGAT 440  
Qy 451 AGTTAGCTGATATGGACCAAGGTAGGCAATTTGTCATGAGTGGGCTCATCTAGA 510  
Db 441 AACTTCGCTATCTATGGACCCCGAGCAGAGTCTTTGTCATGAGTGGGCCCATCTCCGG 500  
Qy 511 TGGGAGTATTTGACGAGTACAAATAATGATGAGAAATTTCTACTTATCCA---ATGGAAGA 567

Db 501 TGGGAGTATTTGATAGTATAAAGTGAACCGTCACTTTTACATTTCTAGAAAGAACT 560  
Qy 568 ATACAGCAGTAAGATGTTTCAAGCAGGTATTACTGTACAAATGTAGTAAGAGTGTCTAG 627  
Db 561 ATAGAAGCAACAGGTGCTCCGCCAGCATCAAGGCAAGAGGTGTCACAGAGTGTCTAG 620  
Qy 628 GGAGCAGCTGTACACCAAAAGATGCACATTTCAATAAAGTAACAGGACTCTATGA AAAA 687  
Db 621 AGAGCAGCTGTGTGACAAAGGGCTGCCGGGTGACTCGAAGACACGGCTGTATGAACCC 680  
Qy 688 GGATGTGAGTTTGTCTCCAATCCCGCAGCGGAGAGGCTTCTATATGTTTGCACAA 747  
Db 681 AAATGTACATTTATCCAGACAAAATAACAGACAGCTGGGGCTCCATAATGTTCTATGCAA 740  
Qy 748 CATGTTGATTTCTATAGTTGAATTTCTGTACAGAAACCAACCAACAAAGAGTCTCCAAAC 807  
Db 741 AACCTCAATTTCTGTGTTGAAATTTTGCACAGAAAATAACCAATGCAAGAGCCCAAC 800  
Qy 808 AAGCAAAATCAAAATGCAATCTCCGAAGCATGCGGAAGTGATCCGTGATTTCTCAGGAC 867  
Db 801 CTACAAAACAAATGTGCATTCGCAAGACGCTGGGATGTAAATCAAGACGCTCTCTGAC 860  
Qy 868 TTTAAGAAAACCACTCTCTATG-----ACAAACACAGCCACCAAAATCCACCTTCTCATTTG 921  
Db 861 TTTTCAAGATGCCCTCCCATGAGAGAAACAGAGCCCTCTCTCCACCTACATTTTATCTG 920  
Qy 922 CTGCGATTTGACAAAGAAATTTGTGTTTGTAGTCTTGTGACAAATCTGGAAGCATGGGACT 981  
Db 921 CTCAAGTCCGAAGCGGAGTGTGCTGTGCTGATNAATCTGGAAGCATGACAAA 980  
Qy 982 GGTAAACCCCTCAATCGACTGAATCAAGCAGCCAGCTTTTCTCTGCTGCAGACAGTTGAG 1041  
Db 981 GAAGACCTCTTATTTGAAATGAATCAAGCAGACGACTGTACTTAACTCAAATTTGTGNA 1040  
Qy 1042 CTGGGCTCTGGGTTGGATGCTGACATTTGACAGTGTGCTGCCATGTACAAAGTGAACCT 1101  
Db 1041 AAGGAGTCTATGTTGGATTAGTACATTTGACAGCGCTGCCACATCCAAAATATCTTA 1100  
Qy 1102 ATACAGATAAAGTGGCAGTGCAGGGACACATCTGCCAAAAGATTAACCTGCAGCAGCT 1161  
Db 1101 ATAAAAATTAAGCAGTAGTAGTACTACCAAAAGATCACCGCAAACTCTCCCAACAGGCT 1160  
Qy 1162 TCAGGAGGAGCTCATCTGAGCGGGCTCGATCGGCATTTTACTGTGATTA---GGAAG 1218  
Db 1161 TCTGTGGAATTTCAATTTGCATGGAATCCAGGAGGATTTTCAAGCAATTAACCTCCAGT 1220  
Qy 1219 AAATATCAACTGATGGAATCTGAAATTTGTGCTGACGGATGGGGAAGACAACTATA 1278  
Db 1221 GACCAGAGCACTTCCGGTCTCTGAGATCGTATTGCTGACAGATGGGGAAGATAATGGAATA 1280  
Qy 1279 AGTGGTCTTTTAAAGAGTCAAAACAAAGTGGTGCATCTCCACACAGTGCCTTTGGG 1338  
Db 1281 GCTTCTCTTTTGAAGCCCTCTCTGCGAGCGGTGCTCATCCACCATCGCTCTGGGG 1340  
Qy 1339 CCCTCTGAGCTCAAGAACTAGAGGAGTGTCCAAAATGACAGAGGATTTACAGACATAT 1398  
Db 1341 CTTTGGGTGCCGGAAGTCTGAGACTCTGTGGACATGACAGAGGAGGCTTCTGTTCTAT 1400  
Qy 1399 GCTTCAGATCAAGTTTCAAGAAATAGGCTCTATGATGCTTTTGGGGCCCTTTTCATCAGA 1458  
Db 1401 GCCAAACAAAGACCT-----AAACAGCCTTATCGATGCTTTTCAAGTAAATTTCACTTACA 1454  
Qy 1459 AATGGAGTGTCTCTCAGCGCTCCATCCAGCTTGAAGTGAAGGATTAACCTTCAGAAC 1518  
Db 1455 AGTGGCAGCGCTCTCCAGCAGGCTCTGCAATTTGGAGAGCAAGCCCTTCATGTACAGACA 1514  
Qy 1519 AGCCAGTGGATGAATGGCACAGTGAATCTGTGACACAGCCGCTGGGGAAGACACTTTGTTT 1578  
Db 1515 GGGGATGGAATAACGGTACAGTACCTCTGACAGTACCGTCCGGCAACGACAGTCTTTT 1574  
Qy 1579 CTTATACCTGGACAAACGACAGCCTCCCAAAATCTCTCTGGGATCCAGTGGACAGAG 1638

Db 1575 GTTATCACCTGGATGTTAAAGGCGAGCAATATCATTTCTTCAAGATCCAAAGGAAAAA 1634  
QY 1639 CA-----AGGTGGCTTTGTAGTGGCAAAACACCAAAATGGCTTACCTCCAAATC 1689  
Db 1635 TATACAACTCAGATTTCCAGATGATAAATAACATCGGTCTGTAGACTTCAATA 1694  
QY 1690 CCAGGCAATTGCTAAGTTGGCACTTGGAAATACAG---TCTGCAAGCAAGCTCACAACC 1746  
Db 1695 CCGGCACTGCGAGACAGTACTTGGACTTACAGCTACACGGGTACCAAGTCTCAGTTG 1754  
QY 1747 TTGACCTGACTGTCTACGTCCTGGTCCGCTCCAAATGCTACCTGCTCCAAATACAGTACT 1806  
Db 1755 ATTACATGACAGTGACCACTCGAGCAAGAGTCCCAATGAAACCACTCTGGGCTAC 1814  
QY 1807 TCCAAACGAAACAGGACACAGCAAAATTTCCCGAGCCCTCTGGTAGTTTATGCAAAATTT 1866  
Db 1815 TGCTACATGATGACAGACAGCCAGTACCTAGCCGGATGATTGTGACGACCGGTC 1874  
QY 1867 CGCAAGGAGCTCCCAATTTCTAGGGCGAGTGTACAGCCCTGATTTGAATCAGTGAAT 1926  
Db 1875 AGCCAAAGGATTTTGGCTGTCTGGAGCCAATGTACAGCCCTCATAGAAGCTGAACAT 1934  
QY 1927 GGAATAACAGTTTACCTTGAATCTACTGGAATAATGAGCAGGTGCTGATGCTACTAAGAT 1986  
Db 1935 GGACATCAAGTACCTTGGAGCTCTGGACAATGGGGCAGGTGCTGATATCGTTAAAAAT 1994  
QY 1987 GACGTGTCTACTCAAGGTATTTTCACACTTTATGACACGAATGGTAGATACAGTGTAAAA 2046  
Db 1995 GATGGCATCTACACAGATACCTTACAGATTATCATGGAATGGTAGATACAGCTTAAA 2054  
QY 2047 GTGGGGCTCTGGAGAGGTTAAGCGCAGCAGGAGAGTGATACCCAGCAGAGTGA 2106  
Db 2055 GTGCGGTCTCCAGCACAAAGAAACAAACCCAGACTGAGCTTAAAG---CAGAAGAACAA 2111  
QY 2107 GCACTGTACATACCTGGCTGGATTGAGATGTAATCAATGGAATCCACCAAGACCT 2166  
Db 2112 TCTTTATATATACCTGGCTGTGGAATGGTAAATTTGTAAGTAAATCCACCCAGACCA 2171  
QY 2167 GAAATTAATTAAGGATGATGTTCAACAAGCAAGTGTGTTTACGAGAAACATCTCCGGA 2226  
Db 2172 GATGTCGAAGAGACCATAGAGCTACAGTGAAGACTTCAACAGAGTAACCTCTGA 2231  
QY 2227 GGTCAAT---TGTGGCTTCTGATGTCCTCAATGCTCCCATCTGATCTCTTCCACCT 2283  
Db 2232 GGGTCGTTTACTGTCTGGAGCGCCCTGTATGGCGACACGCTCGTGTGTCCACCA 2291  
QY 2284 GGCCTAATCACCGACCTGAGGCGGAATTCACGGGGCAGTCTCATTAATCTGACTGG 2343  
Db 2292 AGTAAAGTCACAGACCTGGAGGCTGAGTTTATAGGTG---ATTATATTACCTTACATGG 2348  
QY 2344 ACAGCTCTCTGGGATGATTATGACCATGAAACAGCTCACAAGTATATCATTCGAATAAGT 2403  
Db 2349 AGGGCCCTGGCAAGTTCTGACATGGAAGGACATAGATACATCATCAGATGAGC 2408  
QY 2404 ACAAGTATCTTGATCTCAGACAAAGTTCAATGAATCTCTTCAAGTGAATACTACTGCT 2463  
Db 2409 CAGCATCTCTGGATCTCCAAGAGATTTTAAATGCTACTTTAGTGAATGCTTCCAGT 2468  
QY 2464 CTCATCCCAAGGAGCAACTCTGAGGAGTCTTTTGTGTTTAAACCAAGAAACATTACT 2523  
Db 2469 CTGATACCTTAAAGAGCTGGCTCAAAAGAGCAATTTAAATTTAAACCAAGAACTTTTAA 2528  
QY 2524 TTTGAAATGGCAGACATCTTTTCTGCTATTTCAGGCTGTTGATAGGCTGATCTGAAA 2583  
Db 2529 ATAGCAATGGCATCCAGTCTTACATTTGCAATCCAGGCGAGCAATGAAACCGAGTCTCACC 2588  
QY 2584 TCAGAAATATCCAAATTCAGAGTATCTTTGTTTATTTCTTCCACA 2630  
Db 2589 TCTGAGGTCTCCAACATCGCAGGCTGTCAAGCTTACTTCTCTAGA 2635

RESULT 9

US-09-193-562D-29

; Sequence 29, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 29  
; LENGTH: 3418  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; US-09-193-562D-29

Query Match 29.6%; Score 832.6; DB 4; Length 3418;  
Best Local Similarity 59.9%; Pred. No. 6e-244;  
Matches 1603; Conservative 0; Mismatches 979; Indels 93; Gaps 9;

QY 46 GTGTTTCATCTTGTATCTTCCACCTTCTAGAAAGGGCCCTGAGTAATTCATCTCATTCAGCTG 105  
Db 37 GTGATTCTCTTCTCTATCTTCTCGCTGTATGAAAGCTCCTGCTGTAATCTTGG 96  
QY 106 AACAAACATGGCTATGAGGCAATTTGCTTGCATCGAACCCCAATGTGCCAGAAAGTAA 165  
Db 97 AATAACATGGATATGATGGCATTTGATTTGCAATTAATCCAGTGTACCAGAAAGTAA 156  
QY 166 ACATCTATTCAACAAATAAAGGACATGGTGAACCCAGGCACTCTCTGTATCTGTTTGAAGCT 225  
Db 157 AAACCTCATTCAAAACATAAAGGAAATGGTAACTGAAGCATCTACTCACCTGTTTCATGCC 216  
QY 226 ACAGGAACGATTTTATTTCAAAATGTTGCCATTTGATTTCTCTTCAACATCGAGACA 285  
Db 217 ACCAAACAAAGAGCTTATTTTCAGGAATGAAGCATTTTAAATTCCAATGACCTTACAAATCA 276  
QY 286 AAGGCTGACTATGTGAGACCAAAACCTTGAGACCTTACAAAATGCTGATGTTCTGTTGCT 345  
Db 277 AATCTGAGTACTTAAATCCAAACCAAGAAACATATGACAGGCAAGTGTCTAGTTGCT 336  
QY 346 GAGTCTACTCTCCAGGTAATGATGAACCCCTACATCAGCAGATGGGCAACTGTGGAGAG 405  
Db 337 GATCTTTACTGAAATACGGAGATGATCCCTATACATTTCAATATGGAACAATGTGGAGAT 396  
QY 406 AAGGTGAAGAGATCCACCTCCTGATTTCAATTTGAGGAAAGTGTAGCTGAATAT 465  
Db 397 AAAGGACAAATATATACATTTTACTCCAACTTTCTTTGACTAATAAATTTGGCTACCTAT 456  
QY 466 GGACCAACAGGTAGGSCATTTGTCATGATGGGCTCATCTACGATGGGAGTATTTGAC 525  
Db 457 GGGCTCTGAGGTAAAGTATTTGTCAATGGTGGGCCCATCTCCGGTGGGAGTATTTGAT 516  
QY 526 GAGTCAATAATGATGAGAAATTTCTATTATCCAATGGA---AGATACAAGCAGTGAAGA 582  
Db 517 GAGTATATGTGACAGCAGCCATTTCTATATTTCCAGAAAGAACACACTACTGAAGCAACAAGA 576  
QY 583 TGTTGAGCAGGTATTTACTGGTACAAATGATGTAAGAGAGTGTACGGAGGAGCTGTTCAC 642  
Db 577 TGTTCCACTCGTATTTACTGTTTACATGGTGTGTTGACGAAATGCAAGGGGCCAGCTGTATA 636  
QY 643 ACCAAAGATGCACATTTCAATAAGTAAACAGACACTCTATGAAAGAGTGTGAGTTTGT 702  
Db 637 GCAGACCATTCAGAGTGACTCAGACAGGGCTGTATGAAGCAAAATGTACATTATTC 696  
QY 703 CTCCAATCCCGCCAGACGGAGAGGCTTCTATAATGTTTGTGACAAACATGTTGATTTCTATA 762  
Db 697 CCAAAGAGATCCAGACTGCCAAGGAATCCATTTGTTTATGCAAAATCTTGATTTCTGTG 756  
QY 763 GTTGAATTTCTGTACAGAACAAACACACAAAGAGCTCCAAACAGCAAAATCAAAA 822  
Db 757 ACTGAATTTTGTACTGAAAAAACACACAAATAAAGAGCTCCAAACCTTATATAACAAATG 816









Db 661 TCCTGATGAACGCTGTGCTTCTTGGCCCTTAATATTCATATCAACAGCACCATTCCTGGCA 720  
Qy 2711 TTCACATTTTAAATAATATGTGGAAGTGATAGGAGAACTGCAGCTGTCAATAGCCTAGG 2770  
Db 721 TTCACATTTTAAATAATATGTGGAAGTGGAAGTGGAAGTGGTAGGAGAACTGCAGTTGTCAATAGNCTAGG 780  
Qy 2771 GCTGAATTTTGTTCAGATAAATAA 2795  
Db 781 GGTGAATTTTGTGCGGTGAATAA 805

RESULT 13  
US-09-643-597-168  
; Sequence 168, Application US/09643597  
; Patent No. 6426072  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Fan, Liqun  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Hosken, Nancy  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Li, Samuel X.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Skeiky, Yasir A.W.  
; APPLICANT: Henderson, Robert A.  
; APPLICANT: McNeill, Patricia D.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER  
; FILE REFERENCE: 210121.455C11  
; CURRENT APPLICATION NUMBER: US/09/643,597  
; CURRENT FILING DATE: 2000-08-21  
; NUMBER OF SEQ ID NOS: 369  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 168  
; LENGTH: 2784  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-643-597-168

Query Match 19.7%; Score 554.6; DB 4; Length 2784;  
Best Local Similarity 55.5%; Pred. No. 6.1e-159;  
Matches 1373; Conservative 0; Mismatches 1034; Indels 68; Gaps 13;

Qy 98 TTCAGCTGAACAACTGCTATGAGGCAATTTGCTTGCATTCGACCCCAATGSCCAG 157  
Db 174 TACAGCTTCAGACAAATGGGTAATGGAATGCTCATTCGCAATTAATCCTCAGGTACCTG 233  
Qy 158 AAGATGAACACTCATTTCAACAAATAAAGGACATGGTGACCCAGGCACTCTGTATCTGT 217  
Db 234 AGAATCAGAACCTCATCTCAACATTTAAGAAATGATACTGAAGCTTCATTTTACCTAT 293  
Qy 218 TTGAAGCTACAGGAAGCAATTTTATTCAAAATGTTGCCATTTTGTATTCCTGAAACAT 277  
Db 294 TTAATGCTACCAAGAGAAGAGTATTTTTCAGAAATATAAAGATTTTAAATACCTGCCACAT 353  
Qy 278 GGAAGACAAGGCTGACTATGTGAGACCAAACTTGAGACCTTACAAAATGCTGATGTTTC 337  
Db 354 GGAAGACTAA---TAATAACAGCAATAAATAACAGATCATATGAAAGGCAATGTCA 410  
Qy 338 TGGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCTTACACTGAGCAGATGGGCAACT 397  
Db 411 TAGTGACTGACTGTTATGGGCACATGGAGATGATCATACACCTTACAAATACAGAGGT 470  
Qy 398 GTGGAGAGAGGTTGAAGGATCCACTCATCTCTGATTTTCAATTTGAGGAAAGGTT--- 455  
Db 471 GTGGAAAAGAGGAAAATAATTCATTTTACACACCTAAATTTTCTACTGAAATGATAACTAA 530  
Qy 456 -AGCTGAATATGGACACAGGTAGGGCAATTTTTCATGATGGGCTCATCTACGATGG 514  
Db 531 CAGCTGGCTACGGATCACAGGCGGAGTGTGTGTCATGAATGGGCGCCACCTCCGTTGG 590

Qy 515 GAGTATTTGACGAGTACAAATATGATGAGAAATTTCTACTTTATCCATGCAA---GAATAC 571  
Db 591 GTGTGTTTCGATGAGTATTAACAATGACAAACCTTTCTTACATAAATGGGCAAAATCAAATTA 650  
Qy 572 AAGCAGTAAAGTGTTCAGCAGGTATTTACTTGGTACAAATGCTAGTAAAGAGTGTTCAGGGAG 631  
Db 651 AAGTCAAGAGTGTTCATCTGACATCAACAGGCAATTTTGT-----GTGTGAAAAG 701  
Qy 632 GCAGCTGTTTACACAAAAGATGCACATTCATTAAGTAAACAGGACTCTATGAAAAAGGAT 691  
Db 702 GTCCCTTGCCCCAAGAAAACCTGATTTATTAGTAAG-----CTTTTAAAGAGGAT 752  
Qy 692 GTGAGTTTGTCTCCAAATCCCGCAGAGGAGAGGCTTCTATATGTTTGGACACATG 751  
Db 753 GCACCTTTTATCTACAAATAGCACCCAAATGCAATGCAATTAATGTTTCATGCAAAAGTT 812  
Qy 752 TTGATTCTATAGTGTGAATTTCTGACAGAACAAACCAACAAAGAGCTCCAAACAAGC 811  
Db 813 TATCTTCTGTGTTGAAATTTTGTATGCAAGTACCCCAACCAAGAGACCAACACTAC 872  
Qy 812 AAAATCAAAAATGCAATCTCCGAAGCACATGGGAAGTGTATCGTGTATCTGAGGACTTTA 871  
Db 873 AGAACAGATGTGACGCTCAGAAGTGCATGGATGATTAATCAGAGACTCTGCTGACTTTC 932  
Qy 872 AGAAAACCACTCCTAT-----GACAAACAGCCCAACAAATCCACCTTCTCATTTGCTGC 925  
Db 933 ACCACAGCTTTCCCATGAAACGGGACTGAGCTTCCACCTCTCCCAATTTCTCGCTTGTAG 992  
Qy 926 AGATTGGACAAAGATTTGTGTTTGTAGTCTTTCAGACAAATCTGMAAGCTGGGACTGGTA 985  
Db 993 AGGCTGGTGACAAAGTGGTCTGTTAGTGTGTGATGTGTCAGCAAGATGGCAGAGGCTG 1052  
Qy 986 ACCGCTCAATCGACTGAATCAAGCAGGCGCAGCTTTTCTGCTGCAGACAGTGTGAGCTGG 1045  
Db 1053 ACAGACTCTTCAACTACAGAACGCGCAGAAATTTTATTTGATGAGATTTGTGAATTC 1112  
Qy 1046 GGTCTGGGTTGGGATGTGACATTTGACAGTGTGCTGCCATGTGTAAGAGTGAATCATAC 1105  
Db 1113 ATACCTTCTGTGGCATTTGCCAGTTTCGACAGCAAGAGAGATCAGAGCCAGCTACACC 1172  
Qy 1106 AGATAACAGTGGCAGTGACAGGACACACTCGCCAAAGATTAAC-----CTGCAGCAG 1159  
Db 1173 AAATTAACAGCAATGATGATCGAAAGTGTGCTGGTTTCATATCTGCCCAACACTGTATCAG 1232  
Qy 1160 CTTTCAGGAGGACGTCCATCTGCAGCGGCTTCGATCGGCATTTTACTGTGATTAGGAA-- 1217  
Db 1233 CTAAACAGACATCAGCATTTGTTTCAGGCTTAAGAAAGATTTGAGTGGTTGAAAAC 1292  
Qy 1218 -GAAATATCCAACTGATGGATCTGAAATTTGCTGCTGACGGATGGGGAAGACAACTA 1276  
Db 1293 TGAATGGAAAAGCTTATGGCTCTGTGATGATATTAGTGACCGAGAGATGATAAGCTTC 1352  
Qy 1277 TAAGTGGGTGCTTTAAACGAGTCAACAAAGTGTGCCATCATCCACAGTGGCTTTGG 1336  
Db 1353 TTGGCAATTTGCTTACCCACTGTGCTCAGCAGTGGTTCAACAATTCATCCATGGCCCTGG 1412  
Qy 1337 GGCCCTCTGCACTCAAGAACTAGAGGAGCTGTCGAAATGACAGAGGTTTACAGACAT 1396  
Db 1413 GTTCATCTGCAGCCCCAAATCTGGAGGATTAATCAGCTTTACAGGAGGTTTAAAGTTCT 1472  
Qy 1397 ATGCTTCAGATCAAGTTTCAAGAAATGAGCTCATTTGATGCTTTTGGGGCCCTTTTATCAG 1456  
Db 1473 TTGTTCCAGATATCAAACTCAATAGCATGATGATGCTTTTCAAGTAAATTTTCTCTG 1532  
Qy 1457 GAAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGGAGTAAAGGATTAACCCCTCAGA 1516  
Db 1533 GAACTGGAGACATTTTCCAGCAACATAATTCAGCTTGAAGTACAGGTGAANAATGTCAAAC 1592  
Qy 1517 ACAGCAGTGGATGAATGGCAGTGTGTCGACAGCAACCGTGGGAAAGGACACTTTCT 1576  
Db 1593 CTCACCATCAATTGAAAACACAGTGAATGCTGTGATTAATCTGTGGCAACGACATATGT 1652  
Qy 1577 TTCTTTATCACCTG---GACAAACGAGCCTCCCCAAATCTTCTCTGGGATCCAGTGGAC 1633

1653 TTCTAGTTACGTGGCAGGCGAGTGGTCTCTCTGAGATTATATTTATTTGATCTGATGGAC 1712  
1634 AGAAGCA-----AGGTGCTTTGTAGTGGACAAACAAACAAATGGCTACCTCCAA 1687  
1713 GAAAAATACACAAATAATTTTATACCAATCTAACTTTTCGGACAGCTAGTCTTTGGA 1772  
1688 TCCAGGCAATTCGTAAGGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCT----- 1738  
1773 TTCCAGGAACACTAAGCTTGGCACTGGCACTGGCACTTACACCTGAAACAAATACCCATCTCTC 1832  
1739 CACAAACCTTGACCTGACTGTCAGCTCCCGTCCGCTGCAATCTACCTCTGCTCCCAATTA 1798  
1833 TCGAAGCCCTGAAAGTGACAGTGACCTCTCGCGCTCCAACTCAGCTGTGCCCCAGCCA 1892  
1799 CAGTCACTTCCAAACGAACAGGACACAGCAAAATCCCGAGCCCTCTGGTAGTTTATG 1858  
1893 CTGTGGAAGCCTTTGTGGAAGAGACAGCCTCCATTTTCTCATCTCTGTGATGATTTATG 1952  
1859 CAAATATTCCGCAAGGAGCCTCCCAATTTCTCAGGCGCAGTGTCAAGCCCTGATTGAAT 1918  
1953 CCAATGTGAAACAGGATTTTATCCCAATTTTAAATGCCCAGTGTCTGCTGCCACAGTTGAGC 2012  
1919 CAGTGAATGGAAAAACAGTTACCTTTGGAACTACTCGATAATGGACAGGTGCTGATCTA 1978  
2013 CAGAGCTGGAGATCTCTGTACGCTGAGACTCTTTGATGATGAGCAGGTGCTGATTTA 2072  
1979 CTAAGATGACGGTGTCTACTCAAGTATTTTCAACATTTATGACAGAAATGTTAGATACA 2038  
2073 TAAAAAATGATGGAATTTATCTCGAGGATTTTCTCTCTTCTGCTGCAATGTTAGATATA 2132  
2039 GTGTAAGTGGGGCTCTGGGAGGAGTTAAACGACGACAGAGGAGGTGATACCCAGC 2098  
2133 GCTTGAAGTGTGATGTCATCTCTCCAGCATTAAGCAACCCAGCCCACTCTATTCCAG 2192  
2099 AGAGTGGAGCACTGTACATACCTCTGGTGTGAGAAATGATGAAATACAAATGGAATCCAC 2158  
2193 GGAGTCATGCTATGATGTACCAAGTTTACAGCAAGCAAAACGGTAATTTCAAGATGAATGCTC 2252  
2159 CAAGACCTGAAATTAATAGGATGATGTTCAACACAGCAAGTGTGTTTTCAGCAAGAACT 2218  
2253 CAAGGAAATCAGTAGGCAGAAATAGGAGGAGCGAAAG---TGGGGCTTTTACCGGAGTCA 2309  
2219 CTTGGGAGGCTCATTTTGGGCTCTGTGTCGCAATGCTCCCAATGCTCCATACCTGATCTTCC 2278  
2310 GCTCAGGAGGCTCTTTTTCAGTCTGGAGTTCCAGCTGGCCGCCACCCCTGATGTTTTC 2369  
2279 CACCTGGCCAAATCACCGACCTGAAGGCGGAAATTCACGGGGGCACTCTCTTAATCTGA 2338  
2370 CACCATGCAAAATATTGACCTGGAAGCTGTAAATAGAGAGGA-----TTGACCCCTAT 2424  
2339 CTTGACAGCTCTGGGGATGATATGACCATGGAAACAGCTCACAAGTATATCATTCGAA 2398  
2425 CTTGACAGCACTGGAGAAGACTTTGATCAGGGCCAGGCTCAAGCTATGAAATAAGAA 2484  
2399 TAAGTACAGTATCTTGATCTCAGAGCAAGTTCAAATGAACTCTTCAAGTGAATACTA 2458  
2485 TGAGTAAAGTCTTACAGAAATATCCAGATGACTTTAAACATGCTATTTTAGTAAATACAT 2544  
2459 CTGCTCTCATCCAAAGGAAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACAGAAAAACA 2518  
2545 CAAAGGAATCCTCAGCAAGCTGGCATGAGGAGATATTACGTTCTCACCCCAATTT 2604  
2519 TTACTTTTGAATG 2533  
2605 CCACGAATGGACCTG 2619

## RESULT 14

US-09-480-884A-168  
; Sequence 168, Application US/09480884A  
; Patent No. 6482597  
; GENERAL INFORMATION:

; APPLICANT: Wang, Tongtong  
; APPLICANT: Fan, Lique  
; APPLICANT: Hosken, Nancy A.  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Fanger, Gary R.  
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY  
; FILE REFERENCE: 210121.455C6  
; CURRENT APPLICATION NUMBER: US/09/480,884A  
; NUMBER OF SEQ ID NOS: 330  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 168  
; LENGTH: 2784  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-480-884A-168

Query Match 19.7%; Score 554.6; DB 4; Length 2784;  
Best Local Similarity 55.5%; Pred. No. 6.1e-159;  
Matches 1373; Conservative 0; Mismatches 1034; Indels 68; Gaps 13;

QY 98 TTCAGCTGAACAACTGGCTATGAAGGCAATTTGCTGGCAATCGACCCCAATGTCGCG 157  
Db 174 TACAGCTTCAAGACAAATGGGTATATGATGATTTGCTCATTCGAATTAATCCTCAGGTACCTG 233  
QY 158 AAGATGAACACTCATTCACAAATAAAGGACATGGTGACCCAGGCATCTCTGTATCTGT 217  
Db 234 AGAATCAAGACCTCATCTCAAAACATTAAAGGAATGATACTGAAGCTTCATTTTACCTTAT 293  
QY 218 TTGAAGCTACAGGAAGCGATTTATTTTCAAAATGTTGCCATTTTGGCTTCTGAAACAT 277  
Db 234 TTAATGCTACCAAGAGAAGATTTTTCAGAAATATAAAGATTTTATACCTGCCACAT 353  
QY 278 GGAAGCAAAAGCTGACTATGTAGACCAAACTTTGAGACCTTACAAAATGCTGATGTC 337  
Db 354 GGAAGCTAA---TAATAACAGCAAAATAAAACAAGAAATCATATGAAAGGCAATGTCA 410  
QY 338 TGGTTGCTGAGTCTACTCTCCAGGTATGATGAACCTTACACTGAGGAGATGGCACT 397  
Db 411 TAGTGACTGACTGTGATGGGCAATGGAGATGATCCATACACCCCTACAATACAGAGGT 470  
QY 398 GTGAGAGAAGGGTGAAGAGGATCCACCTCACTCTCTGATTTTCAATTCAGGAAAAAGTT-- 455  
Db 471 GTGGAAGAGGAAAAATACATTCATTTACACCTAAATTTCTTACTGATGATTA 530  
QY 456 -AGCTGAATATGGACCAAGGTAGGCAATTTGCTCCATGAGTGGGCTCATCTACGATGG 514  
Db 531 CAGCTGGCTACGGATCAGAGGCGAGTGTGTCATGAATGGGCCCACTCCGTTGGG 590  
QY 515 GAGTATTTGACGAGTACAAATGATGAGAAATTTCTACTTATCCAATGGAA---GAAATAC 571  
Db 591 GTGTGTTGATGAGTAAACAAATGACAAACCTTTCTACATAAATGGGCAAAATCAAAATTA 650  
QY 572 AAGCAGTAAGATGTTTACGACGATTTACTGTGTACAAATGTAGTAAAGAAAGTGTCAAGGAG 631  
Db 651 AAGTACAGGAGTGTCTGATCATCAGCATCAGGCAATTTTGT-----GTGTGAAAG 701  
QY 632 GCAGCTGTTTACACCAAAAGATGCAATTCATTAAGTAACAGGACTCTATGAAAAAGGAT 691  
Db 702 GTCTTGGCCCCCAAGAAACTGTATTATTAGTAAG-----CTTTTAAAGAGGAT 752  
QY 692 GTGAGTTTGTCTCCAATCCCGCAGAGGAGAGGCTTCTATATGTTTGGCACACATG 751  
Db 753 GCACCTTTATCTACAATAGCACCCCAAAATGCAATGCAATGATTTTATGTCGCAAGTT 812  
QY 752 TTGATTTCTATAGTTGAATTTCTGTACAGAACAAACCAACAAAGAAAGCTCCCAACCAAGC 811  
Db 813 TATCTTCTGTGTTGAATTTTGTATGCAAGTACCCCAACCAAGAGCAACCAACCTTAC 872  
QY 812 AAAATCAAAAATGCAATCTCCGAAGCAATGCGGAAGTGAATCGGTGATCTGAGGACTTTTA 871  
Db 873 AGAACAGATGTCAGCCTCAGAAAGTGCATGGATGTAATCAACAGACTCTGCTGACTTTC 932

Qy	872	AGAAAACCACTCCTAT-----GACAAACAGGCCACAAAATCCACCTTCTCATTTGCTGC	935
Db	933	ACCACAGCTTCCCATGAAGCGGACTGAGCTTCCACCTCCTCCACATTTCTCGTTGTAG	992
Qy	926	AGATTGGACAAAGNATGTGTGTTAGTCTTGACAAATCTGNAAGCATGGCACTGGTA	985
Db	993	AGGCTGGTGCAAGTGGTCTGTTAGTGTGTGATGTGTCCAGCAAGATGGCAGAGCTG	1052
Qy	986	ACGGCTTCAATCGACTGAATCAAGCAGCGCCAGCTTTTCTGTCTGCACAGTTGAGCTGG	1045
Db	1053	ACAGACTCCTTCAACTACAAACAGCCAGAAATTTATTTGATGCAGATGTTGAAATTC	1112
Qy	1046	GGTCTGGGTTGGGATGGTGACATTTGACAGTGTGTGCCCATGTACAAAGTGAACTCATAC	1105
Db	1113	ATACCTTCGTGGGCATTCGCCAGTTTCACAGCAAGAGAGAGATCAGAGCCAGCTACACC	1172
Qy	1106	AGATAAACAGTGGCAGTGACAGGACACACTCGCCAAAAGATTAC-----CTGCAGCAG	1159
Db	1173	AAATTAAACGAATGATGATCGAAAGTTGTGTGTTTCATATCTGCCCACACCTGTATCAG	1232
Qy	1160	CTTCAGAGGAGCGTCCATCTGCAGCGGGCTTCGATCGGCATTTACTGTGATTAGGAA--	1217
Db	1233	CTAAAACAGACATCAGCATTTGTTTCAGGGCTTTAAGAAAGGATTTGAGTGGTTGAAAAAC	1292
Qy	1218	-GAATATCAACTGATGGATCTGAANTTGTGTCTGTGACGGATGGGAAGACAACACTA	1276
Db	1293	TGAATGAAAAGCTTATGGCTCTGTGATGATATTTAGTGACCGCGGAGATGATAAGCTTC	1352
Qy	1277	TAAAGTGGTGCTTTTAAACGAGGTCAAAACAAAGTGGTGCCATCATCCACACAGTCCGTTGG	1336
Db	1353	TTGGCAATTGCTTACCACACTGTGCTCAGCAGTGGTTCAACAAATTCATCTGATGCCCTGG	1412
Qy	1337	GGCCCTCTGCAGCTCAAGAACTAGAGAGCTGTCCAAAATGACAGGAGTTTACAGACAT	1396
Db	1413	GTTCATCTGCAGCCCCAAATCTGGAGAAATATCACGCTCTTACAGGAGGTTTAAAGTTCT	1472
Qy	1397	ATGCTTCAGATCAAGTTCAGAACAATGGCCCTCATTGATGCTTTTGGGGCCCTTTCATCAG	1456
Db	1473	TTGTTCCAGATATCAAACTCCAATAGCATGATGATGCTTTTCAGTAGAAATTTCTCTCTG	1532
Qy	1457	GAATGGAGTGCTCTCACGGCTCCATCCAGCTTGAGAGTAAAGGANTTAACCTCCAGA	1516
Db	1533	GAATGGAGACATTTCCAGCAACATATTCAGCTTGAAGTACAGGTGAAATGTCAAC	1592
Qy	1517	ACAGCCAGTGGATGAATGGCACAGTATGCTGACAGCACCGTGGGAAAGGACACTTTGT	1576
Db	1593	CTCACCATAATTTGAAAAACACAGTACTGTGGATATACTGTGGGCAACGACACTATGT	1652
Qy	1577	TTCTTATCACCTG---GACAACGAGCGCTCCCAATCCTTCTCTGGGATCCAGTGGAC	1633
Db	1653	TTCTAGTTACGTGGCAGGCCAGTGGTCCCTCTGAGATTAATATTATTGATCTCTGATGGAC	1712
Qy	1634	AGAAGCA-----AGGTGGCTTTGTAGTGACAAAAACAAAAATGGCCCTACTCCAAA	1687
Db	1713	GAANAATACTACAAATAATTTTATCACCATCTAATCTTTTCGGACAGCTAGTCTTTGGA	1772
Qy	1688	TCCAGCAGATTGTAAGTTGGCACTTTGGAAAATACAGTCTGCAAGCAAGCT-----	1738
Db	1773	TTCCAGGAACAGCTTAAGCCCTGGGCACCTGGACTTACACCCCTGAAACAAATACCATCTCTC	1832
Qy	1739	CACAAACCTTTGACCCCTGACTGTCAAGTCCCGTGTGCTCCAATGTACCTCCCTCCCAATTA	1798
Db	1833	TGCAGCCCTGAAAGTGACAGTGAACCTCTCGCGCTCCAACTCAGCTGTGCCCCCAGCCA	1892
Qy	1799	CAGTGACTTCCAAAACGAAACAGGACACACGCAAAATTTCCCGAGCCCTCTCGTATGTTATG	1858
Db	1893	CTGTGGAAGCCTTTGTGGAAGAGACAGCCCTCCATTTTCTCATCTGTGATGATTTATG	1952
Qy	1859	CAAAATATTCGCCAAGGAGCCTCCCAATTTCTCAGGGCCAGTGTCAACAGCCCTGATTGAAT	1918
Db	1953	CCAAATGTGAACAGGGATTTTATCCCAATCTTAATGCATGTCTATGCACATGTCACTGCCACAGTTGAGC	2012

1919	Qy	CAGTGAATGAAAAACAGTTTACCTTGGAACTACTGATTAATGAGCAGGTGCTGATGCTA	1978
2013	Db	CAGAGACTGGAGATCTCTTACGCTCAGACTCCTTGTATGATGGAGCAGGTGCTGATGTTA	2072
1979	Qy	CTAAGGATGACGGTGTCTACTCAAGGTATTTCACAACTATATGACAGAAATGGTAGATACA	2038
2073	Db	TAAAAAATGATGGAAATTTACTCGAGGTATTTTTTCTCTTGTGCGAAATGGTAGATATA	2132
2039	Qy	GTCTAAAGTGC CGGGCTCTGGGAGGAGTTAAACGACGCCAGACGGAGAGTGATACCCGACG	2098
2133	Db	GCTTTGAAAGTGCAATGTCATCAATCACTCTCCAGCATAAAGCACCCGAGCCACTCTATTTCGAG	2192
2099	Qy	AGAGTGGAGCAGCTGATACATACCTTGGCTGGATGAGGAATGATGAATACAAATGGAATCCAC	2158
2193	Db	GGAGTCATGCTATGTATGTACCAAGGTTACACGAAACGGTAATATTTCAGATGAATGCTC	2252
2159	Qy	CAAGACCTGAAATTAATAAGGATGATGTTCCAAACACAGCAAGTGTGTTTTCAGCAGAACAT	2218
2253	Db	CAAGGAAATCAGTAGGCAGAAATGAGGAGAGCGAAAG---TGGGGCTTTAGCCGAGTCA	2309
2219	Qy	CTCTGGGAGGCTCATTTTGTGGCTTCTGATGTCCAAATGCTCCCATACCTGATCTCTTCC	2278
2310	Db	GCTCAGAGGCTCCTTTTTCAGTCTGGGAGTTCACAGCTGGCCCCCAGCTGATGTGTTTC	2369
2279	Qy	CACCTGCCAAATCACCGACCTCAAGCGCGAAATTCACGGGGCAGTCTCATTAATCTGA	2338
2370	Db	CACCATGCAAAATTTATGACCTGGAGCTGTAATAGAGAGANA-----TTGACCCCTAT	2424
2339	Qy	CTTTGGACAGCTCTCTGGGATGATTATGACCATGGAAACAGCTCAACAAGTATATCATTCGAA	2398
2425	Db	CTTTGGACAGCACCTGGAGAGACTTTTGTATCAGGGCCAGGCTACAAGCTATGAAATAGAA	2484
2399	Qy	TAAGTACAAGTATTTCTTGATCTCAGAGACAAGTTCAATGAATCTCTCAAGTGAATACTA	2458
2485	Db	TGAGTAAAGTCTACAGAATATCCAAGATGACTTTTAACAATGCTATTTTATAGTAAATACAT	2544
2459	Qy	CTGCTCTCATCCCAAGGAGCCAACTCTCAGGAAAGTCTTTTGTGTTTAAACCAGAAACA	2518
2545	Db	CAAAAGCGAAATCTCAGCAAGCTGGCATCAGGGAGATATTTCGTTCTCACCACCAATTT	2604
2519	Qy	TTACTTTTGAANAATG	2533
2605	Db	CCACGAATGCACCTG	2619

```

RESULT 15
US-09-542-615A-168
; Sequence 168, Application US/09542615A
; Patent No. 6510256
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy A.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 21021.455C8
; CURRENT APPLICATION NUMBER: US/09/542,615A
; CURRENT FILING DATE: 2000-04-14
; NUMBER OF SEQ ID NOS: 350
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 168
; LENGTH: 2784
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-542-615A-168

```

Query Match	19.7%	Score 554.6;	DB 4;	Length 2784;
Best Local Similarity	55.5%;	Pred. No. 6.1e-159;		
Matches 1373;	Conservative	0;	Mismatches 1034;	Indels 68;
			Gaps	13;

QY 98 TTCAGCTGAACAACTATGCTATGAAGCATTTGCTGTCATTCGATCGACCCCAATGTCGAC 157  
DB 174 TACAGCTTCAAGACAATGGGTATATGGATTGCTCATTCGCAATTAATCCTCAGGTACCTG 233  
QY 158 AAGATGAACAACCTCAATTCACAAATAAAGGACATGGTGACCCAGGCACTCTGTATCTGT 217  
DB 234 AGAATCAGAACCTCATCTCAACATTAAGGAATGATTAACCTGAAGCTTCATTTTACCTAT 293  
QY 218 TTGAAGCTACAGGAAGCGATTTTATTCACAAATGTTGCCATTTTGATTCCTGGAACAT 277  
DB 294 TTAATGCTACCAAGAGAAGAGTATTTTTCAGAAATATAAAGATTTTAAATACCTGCCACAT 353  
QY 278 GGAAGACAAAGCTGACTATGTGAGACCAAACTTGAGACCTTACAAAATGCTGATGTC 337  
DB 354 GGAAGCTTAA---TAAATACACAAATAAACAAGATCATATGAAAGGCAATGTCA 410  
QY 338 TGGTTGCTGAGTCTACTCCTCAGGTAAATGATGAACCCCTACACTGAGCAGATGGGCACT 397  
DB 411 TAGTGACTGACTGGTATGGGGCACATGGAGATGATCCATACACCCCTACAAATACAGAGGT 470  
QY 398 GTGGAGAGAGGCTGAAGGATCCACCTCACCTCTGATTTTCATTTGCAAGGAAAAGTT--- 455  
DB 471 GTGGAAAAGAGGAAAATACTTTTTCACACCTTAAATTTCTACTGAAATGATACTTAA 530  
QY 456 -AGCTGAATATGGACCAAGGTAGGGCAATTTGTCCATGAGTGGGCTCATCTACGATGGG 514  
DB 531 CAGCTGGCTACGGATCAGNGCCGAGTGTGTTGTCATGAAATGGGCCACCTCCGTTGGG 590  
QY 515 GAGTATTTGACAGTACAATAATGATGAGAAATTCCTATTTTCAATGGA---GAATAC 571  
DB 591 GTGTGTTGATGATATAAATAATGACAAACCTTTCTACATAAATGGGCAAAATCAAAATTA 650  
QY 572 AAGCAGTAGATGTTTACAGCAGGTATTTACTGTTACAAATGATGATGAAGTCTCAGGAG 631  
DB 651 AAGTGACAGGTGTTTATCTGACATCACAGGCATTTTGT-----GTGTGAAAAG 701  
QY 632 GCAGCTGTTTACACCAAAAGATGCATTCATTAAGTAAACAGGACTCTATGAAAAGGAT 691  
DB 702 GTCTTGGCCCCAAGAAACTGATTTATTTAGTAAG-----CTTTTAAAGAGGAT 752  
QY 692 GTGAGTTGTTCTCAATCCGCCAGAGCGGAGGCTTTCTAATAATGTTTGGACAAACATG 751  
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QY 752 TTGATTTCTATAGTTGAATTTCTGACAGAACAAAACAGAAAGCTCCAAACAAGC 811  
DB 813 TATCTTCTGTGTTGAAATTTTGTATGCAAGTACCCAAACCAAGCAAGCACCACCTAC 872  
QY 812 AAAATCAAAATGCAATCTCCGAAGCACATGGGAAGTATCGTGATTTGAGGACTTTA 871  
DB 873 AGAACAGATGTGACGCTCAGAGTGCATGGGATGTAATCACAGACTCTGCTGACTTTC 932  
QY 872 AGAAAACCACTCCTAT-----GACAAACAGCCACCAATCCCACTTCTCATTTGCTGTC 925  
DB 933 ACCACAGCTTTCCCATGAACGGGACTGAGCTTCCACCTCCCTCCCACTTCTCGTTGTAG 992  
QY 926 AGATTGGACAAAGATTTGTTGTTTGTAGTCTTTCAGAAATCTGGAAGCATGGGCACTGTA 985  
DB 993 AGGCTGGTACAAAGTGGTCTGTTTGTGCTGGATGTGTCCAGCAAGATGGCAGAGGCTG 1052  
QY 986 ACCGCTCAATCGACTGAATCAAGCAGGCGAGCTTTTCTGCTGCAGACAGTTGAGCTGG 1045  
DB 1053 ACAGACTCTTCAACTACAAACGCGCAGATTTTATTTGATGCAGATTTGTAATTC 1112  
QY 1046 GGTCTCTGGTGGATGGTGAATTTGACAGTGTGCTGCCCATGTAACAAAGTGAATCATAC 1105  
DB 1113 ATACCTTCTGGGGCATTTGCCAGTTTCGACAGCAAAAGAGAGATCAGAGCCAGCTACACC 1172  
QY 1106 AGATAACAGTGGCAGTGACGGGACACACTCGCCAAAGATTAC-----CTGCAGGAG 1159  
DB 1173 AAATTAACAGCAATGATGCAAGAGTGTGTTGTTTCTATATCTGCCCACTGATATCAG 1232  
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DB 1233 CTAAACACAGACATCAGCATTTGTTTCAGGGCTTAAGAAAGGATTTGAGGTGGTTGAAAAC 1292  
QY 1218 -GAAATATCCACTGATGGATCTGAAATTTGCTCTGACCGATGGGAGACACACTA 1276  
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QY 1277 TAAGTGGGTGCTTTTAAACGAGGTCAAAACAAAGTGGTCCATCATCCACAGTCGCTTGG 1336  
DB 1353 TTGGCAATTTGTTACCCACTGTCTCAGCAGTGGTTCAACAATTCCTCCATTGGCCTGG 1412  
QY 1337 GGCCCTCTGAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGAGGTTTACAGACAT 1396  
DB 1413 GTTCATCTGCAGCCCCAAATCTGGAGGAATATACGCTTTACAGAGGTTTAAAGTTCT 1472  
QY 1397 ATGCTTCAGATCAAGTTTCAACAATGAGCTCATTTGATGCTTTTGGGGCCCTTTTATCAG 1456  
DB 1473 TTGTTCCAGATATATCAAACTCCAAATAGCATGATTTGCTTTTCAAGTGAATTTTCTCTG 1532  
QY 1457 GAAATGGAGCTGTCTCTCAGGCTCCATCCAGCTTGAGAGTAAAGGATTTAAACCTCCAGA 1516  
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DB 1593 CTCACCATCAATTTGAAAACACAGTGACTGTGGATAATCTGTGGGCAACACACTATGT 1652  
QY 1577 TTTTATCACCTG---GACACGAGCTCTCCCAATCTCTCTCTGGGATCCAGTGGAC 1633  
DB 1653 TTTAGTTTACGTGGCAGGCCAGTGGTCTCTCTGAGATATATATTTTGTCTCTGATGGAC 1712  
QY 1634 AGAAGCA-----AGTGGCTTTGTAGTGGACAAAACACAAATGGCTACCTCCAAA 1687  
DB 1713 GAAATACTACAAATTAATTTTATCACCAATCTTAACTTTTCGGACAGCTAGTCTTTGGA 1772  
QY 1688 TCCAGGCAATTTCTAAGTTTGGCACTTGGAAATACAGTCTGCAAGCAAGCT----- 1738  
DB 1773 TTCCAGGAACAGCTAAGCCTGGGCACCTGACTTACACCTGAAACATACCCATCTTCTC 1832  
QY 1739 CACAAACCTTGACCTGACTGTGCTGCGTGGCTCCATGCTACCTGCTCCCTCCCAATTA 1798  
DB 1833 TGCAGCCCTGAAAGTGAAGTGAAGTGTGCTGCGGCTCCAACTCAGTGTGCCCCCAGCCA 1892  
QY 1799 CAGTGAATTTCCAAACAGCAAGGACACAGCAAAATTTCCCAAGCTCTCTGGTAGTTTATG 1858  
DB 1893 CTGTGGAAGCTTTGTGGAAGAGACAGCTCCATTTTCTCTCATCTCTGTGATGATTTATG 1952  
QY 1859 CAAATATTTCCGCAAGGAGCTCCCAATTTCTCAGGSCCAGTGTACAGCCCTGATTTGAAT 1918  
DB 1953 CCAATGTCAAAACAGGATTTTATCCCATTTCTTAATGCCACTGTCTACTGCCACAGTTGAGC 2012  
QY 1919 CAGTGAATGGAAAACAGTGTACTTGGAACTACTGGATAATGGACAGGTGCTGATGCTA 1978  
DB 2013 CAGAGACTGGAGATCTCTGTATTACGTGAGACTCTTTGATGATGAGCAGGTGCTGATTTA 2072  
QY 1979 CTAAGGATGAGGTGCTCTACTCAAGGTATTTTCAACAATTTATGACAGAAATGGTAGATCA 2038  
DB 2073 TAAAAAATGATGGAATTTTCTGAGGTATTTTCTCTCTGCTGCAAAATGGTAGATATA 2132  
QY 2039 GTGTAAGAGTGGGGCTCTGGGAGGAGTTTAAACGAGCCAGACGAGAGTGTATACCCAGC 2098  
DB 2133 GCTTGAAAGTGCATGTCAATCACTCTCCAGCATTAAGCACCCAGCCCACTCTATTTCAG 2192  
QY 2099 AGAGTGGAGCACTGTACATACCTGCTGGATGAGATGATGATGATGATGATGATGATGAT 2158  
DB 2193 GGAGTCATGCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2252  
QY 2159 CAAGACCTGAAATTAATAAGGATGATGTTTCAACAAGCAAGCAAGTGTGTTTTCAGCAAGCAAT 2218  
DB 2253 CAAGGAATCAGTAGGACAGAAATGAGGAGGAGCGAAG---TGGGGCTTTAGCCGAGTCA 2309  
QY 2219 CTTGGGAGGCTCAATTTGTGGCTTCTGATGTCCTCCAAATGCTTCCCATATCCTGATCTCTCC 2278

Db 2310 GCTCAGGAGGCTCCTTTTCAGTGCTGGGAGTTCCAGCTGGCCCCCACCCTGATGTGTTTC 2369  
Qy 2279 CACCTGGCCAAATCACCGACCTGAAGCGGGAATTCACGGGGGCGAGTCTCATTAATCTGA 2338  
Db 2370 CACCATGCAAAATATTGACCTGGAAGCTGTAATAGAGAGGAA-----TTGACCTAT 2424  
Qy 2339 CTTGGACAGCTCCTGGGGATGATTATGACCATGGGAACAGCTACAAGTATATCATTCGAA 2398  
Db 2425 CTTGGACAGCACCTGGAGAAGACTTTTGATCAGGGCCAGGCTACAGCTATGAAATAAGAA 2484  
Qy 2399 TAAGTACAAGTATTCTTGATCTCAGAGACAAGTTCAATGAACTCTTCAAGTGAATACTA 2458  
Db 2485 TGAGTAAAGTCTACAGATATCCAAAGATGACTTTAACTGCTATTTAGTAAATACAT 2544  
Qy 2459 CTGCTCTCATCCAAAGGAAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACCAGAAAACA 2518  
Db 2545 CAAAGCGAAATCCTCAGCAAGCTGGCATCAGGGAGATATTTAGCTTCTCACCCCAATTT 2604  
Qy 2519 TTACTTTTGAATG 2533  
Db 2605 CCACGAATGGACCTG 2619

Search completed: April 24, 2004, 05:01:21  
Job time : 284.572 secs

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Query Match:	94.53%	Indels:	0
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QY	1	GAATACACAGGGAGATGTACAGCAATGGGCCATTTAAAGAGTCTCTGTTCATCTTGATT	60
DB	4	GlulThrGlyArgCysThrAlaMetGlyProPheLysSerValPheIleLeuIle	23
QY	61	CTTCACCTTCTAGAAGGGCCCTGAGTAATCTACTATTCTCAGCTGACCAACATGCTAT	120
DB	24	LeuHieLeuLeuGluGlyAlaLeuSerAsnSerLeuIleGlnLeuAsnAsnGlyTyr	43
QY	121	GAAGGATCTCTGTCGAATCGACCCCAATGTCGAGACATCAAACTCATTTCAACAA	180
DB	44	GlulGlyIleValValAlaIleAspProAsnValProGluAspGluThrLeuIleGlnGln	63
QY	181	ATAAGGACATGTTGACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT	240
DB	64	IleLysAspMetValThrGlnAlaSerLeuTyrLeuPheGluAlaThrGlyLysArgPhe	83
QY	241	TATTTCAAAATGTTGCCATTTTGATTCCTGAAACATGGAAGACAAGGCTGACTATGTG	300
DB	84	TyrPheLysAsnValAlaIleLeuIleProGluThrTriPlysThrLysAlaAspTyrVal	103
QY	301	AGACCAAACTTGAGACCTACAAAATGCTGATGTTCTGGTCTGAGTCTACTCTCCA	360
DB	104	ArgProLysLeuGluThrTyrLysAsnAlaAspValLeuValAlaGluSerThrProPro	123
QY	361	GGTAATGATGAACCTACACTGAGCAGATGGGCAACTGTGGAGAGAGGTGAAGGATC	420
DB	124	GlyAsnAspGluProTyrThrGluGlnMetGlyAsnCysGlyGluLysGlyGluArgIle	143
QY	421	CACCTCATCTGATTTCTAGCAGGAAGAAAGTTAGCTGAATATATGGAACCAAGTAGG	480
DB	144	HieLeuThrProAspPheIleAlaGlyLysLysLeuAlaGluTyrGlyProGlnGlyArg	163
QY	481	GCATTTGTCATCAGTGGGCTCATCTACGATGGGAGTATTTCCAGCAGTACATATGAT	540
DB	164	AlaPheValHieGluThrAlaHieLeuArgTyrGlyValPheAspGluTyrAsnAsnAsp	183
QY	541	GAGAAATCTTACTATTCATGGAAGAAATACAAGCAGTAAGATGTTCCAGCAGTATTACT	600
DB	184	GluLysPheTyrLeuSerAsnGlyArgIleGlnAlaValArgCysSerAlaGlyIleThr	203
QY	601	GGTACAAATGTAGTAAAGAGTGTCTAGGAGGAGCTGTTTACACCAAAAGATCCATTC	660
DB	204	GlyThrAsnValValLysLysCysGlnGlySerCysTyrThrLysArgCysThrPhe	223
QY	661	AATAAAGTACAGGACTCTATGAAAAGGATGTAGTTTCTCCAAATCCCGCCAGAG	720
DB	224	AsnLysValThrGlyLeuTyrGluLysGlyCysGluPheValLeuGlnSerArgGlnThr	243
QY	721	GAGAAGCTTCTATAATGTTTGACACACATGTTGATTTCTATAGTTGAAATTTCTACAGAA	780
DB	244	GluLysAlaSerIleMetPheAlaGlnHieValAspSerIleValGluPheCysThrGlu	263
QY	781	CAAAACACAAAGAGCTCCAAACAGCAAAATCAAAATGCAATCTCCGAAGCACA	840
DB	264	GlnAsnHieAsnLysGluAlaProAsnLysGlnAsnGlnLysCysAsnLeuArgSerThr	283
QY	841	TGGGAAGTATCGTGTATCTGAGGACTTTAAGAAACCACTCTCTATGACACACAGCCA	900
DB	284	TriPgluValIleArgAspSerGluAspPheLysThrThrProMetThrThrGlnPro	303
QY	901	CCAAATCCCACTTCTCATTTGTCGAGATTGGAACAAAGAAATTTGTGTTTAGTCTTGAC	960
DB	304	ProAsnProThrPheSerLeuLeuGlnIleGlyGlnArgIleValCysLeuValLeuAsp	323
QY	961	AAATCTGGAAGATGGGAGCTGTAACCGCTCAATCGACTGAATCAAGCAGGCCAGCTT	1020
DB	324	LysSerGlySerMetAlaThrGlyAsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeu	343
QY	1021	TTCTCTGTCACACAGTTCAGCTGGGTCTCTGGTTGGATGGTGCATTTGCAGCTGCT	1080
DB	344	PheLeuLeuGlnThrValGluLeuGlySerTyrValGlyMetValThrPheAspSerAla	363
QY	1081	GGCCATGTACAAAGTGAATCATACAGATAACAGTGGGAGTGCACAGGACACACTCGCC	1140
DB	364	AlaHieValGlnSerGluLeuIleGlnIleAsnSerGlySerAspArgAspThrLeuAla	383
QY	1141	AAAAGATTACCTCGCAGCAGCTTCAGAGGAGCGTCCATCTGCAGCGGGCTTCGATCGCA	1200
DB	384	LysArgLeuProAlaAlaAlaSerGlyGlyThrSerIleCysSerGlyLeuArgSerAla	403
QY	1201	TTTACTGTCTATTAGGAAGAAATATCCAACTGATGATCTGAAATTTGTGCTGACGGAT	1260
DB	404	PheThrValIleArgLysLysTyrProThrAspGlySerGluIleValLeuLeuThrAsp	423
QY	1261	GGGGAAGACAAACATATAAGTGGTGTCTTAAACGAGGTCAAAAGTGGTGGCATCATC	1320
DB	424	GlyGluAspAsnThrIleSerGlyCysPheAsnGluValLysGlnSerGlyAlaIleIle	443
QY	1321	CACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGACTAGAGGAGCTGCCAAAATGACA	1380
DB	444	HieThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGluLeuSerLysMetThr	463
QY	1381	GGAGGTTTACACACATATCTTCAGATCAAGTTTCAGAACAAATGGCCCTCATTTGCTTTT	1440
DB	464	GlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsnGlyLeuIleAspAlaPhe	483
QY	1441	GGGGCCCTTTTCATCAGAAATGAGCTGTCTCAGCGTCCATCCAGCTTGAGAGTAAG	1500
DB	484	GlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSerIleGlnLeuGluSerLys	503
QY	1501	CGATTAACTCCAGAACAGCCAGTGGATGATGACACAGTGTCTGTCAGCAGCAGCTG	1560
DB	504	GlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrValIleValAspSerThrVal	523
QY	1561	GGAAAGGACACTTTGTTCTTATCACTCGAACAAACGACGCTCCCAAAATCTCTCTGG	1620
DB	524	GlyLysAspThrLeuPheLeuIleThrTrpThrGlnProGlnIleLeuLeuTrp	543
QY	1621	GATCCAGTGGACAGAACGAGTGGCTTTGTAGTGGACAAACAAACCCAAAATGGCTAC	1680
DB	544	AspProSerGlyGlnLysGlnGlyPheValValAspLysAsnThrLysMetAlaTyr	563
QY	1681	CTCCAAATCCAGGACATCTTAAGTTGGCATTGCAAAATACAGTCTGCAAGCAAGCTCA	1740
DB	564	LeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyrSerLeuGlnAlaSerSer	583
QY	1741	CAAACTTGACCTGACTGTCACTCGTCCGCTCCCAATGCTACCTGCTCCCAATTACA	1800
DB	584	GlnThrLeuThrLeuThrValThrSerArgAlaSerAsnAlaThrLeuProProlIleThr	603
QY	1801	GTGACTTCCAAAACGAAACAGGACACCAAAATTCGCCAGCCCTCTGTAGTTTATGCA	1860
DB	604	ValThrSerLysThrAsnLysAspThrSerLysPheProSerProLeuValValTyrAla	623
QY	1861	AATATTCGCAGAGCCCTCCCAATCTCAGGCCAGTGTACAGCCCTGATTGTAATCA	1920
DB	624	AsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerValThrAlaLeuIleGluSer	643
QY	1921	GTGAATGGAAAAACAGTTACCTTGGAACTACTGGATAATGGAGCAGGTGCTGATGCTACT	1980
DB	644	ValAsnGlyLysThrValThrLeuGluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThr	663
QY	1981	AAGGATGACGGTGTCTACTCAAGGATTTTCAAACTTATGACACGAATGGTAGATCAGT	2040
DB	664	LysAspAspGlyValTyrSerArgTyrPheThrThrTyrAspThrAsnGlyArgTyrSer	683
QY	2041	GTAAAGTGGCGCTCTGGAGAGCTTAACGACGACGAGAGTGTATCCCGCAGCAG	2100
DB	684	ValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArgValIleProGlnGln	703
QY	2101	AGTGGAGCACTGTACATACCTGGCTGGATTGAGATGTGAAATGATAATCAATGGAATCCACCA	2160

Db	704	SerGlyAlaLeuTyrIleProGlyTrpIleGluAsnAspGluIleGlnTrpAsnProPro	723
QY	2161	AGACCTGAAATTAATAAGGATGATGTTCAACACAAAGCAAGTGTGTTTTCAGCAGAACATCC	2220
Db	724	ArgProGluIleAsnLysAspAspValGlnHisLysGlnValCysPheSerArgThrSer	743
QY	2221	TGGGAGGCTCATTTGGCTTCTGATGCTCCAAATGCTCCCATACCTGATCTCTTCCCA	2280
Db	744	SerGlyGlySerPheValAlaSerAspValProAsnAlaProIleProAspLeuPhePro	763
QY	2281	CCTGGCCAAATCACCCACCTGAGGGCGAAATTCACGGGGGAGTCTCATTAATCTGACT	2340
Db	764	ProGlyGlnIleThrAspLeuLysAlaGluIleHisGlySerLeuIleAsnLeuThr	783
QY	2341	TGGACAGCTCCTGGGATGATTATGACCATGGAAACAGCTCACAAATATATCATTCGAATA	2400
Db	784	TrpThrAlaProGlyAspAspThrAspHisGlyThrAlaHisLysTyrIleIleArgIle	803
QY	2401	AGTACAAGTATTTCTGATCTCAGACAGCAAGTTCAAATCTCTTCAAGTGAATACTACT	2460
Db	804	SerThrSerIleLeuAspLeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThr	823
QY	2461	GCTCTCATCCAAAGAACCAACTCTGAGGAAGTCTTTTGTGTTTAAACAGAAACATT	2520
Db	824	AlaLeuIleProLysGluAlaAsnSerGluValPheLeuPheLysProGluAsnIle	843
QY	2521	ACTTTTGAATGCGACAGATCTTTTCATTGCTATTACAGCTGCTGATAGGTTCGATCTG	2580
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QY	2581	AAATCAGAATATCCAACTTGACAGATATCTTTGTTTATTCCTCCACAGACTCCGCCA	2640
Db	864	LysSerGluIleSerAsnIleAlaArgValSerLeuPheIleProGlnThrProPro	883
QY	2641	GAGACACCTAGCTCTGATGAACGCTGCTCCTTGCTTAAATTCATATCAACAGACC	2700
Db	884	GluThrProSerProAspGluThrSerAlaProCysProAsnIleHisIleAsnSerThr	903
QY	2701	ATTCTCGGATTCACATTTTAAATAATATGTGAAGTGGATAGGAACTGCAGCTGTCA	2760
Db	904	IleProGlyIleHisIleLeuLysIleMetTrpLysTrpIleGlyGluLeuGlnLeuSer	923
QY	2761	ATAGCC 2766	
Db	924	IleAla 925	

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; Sequence 6248, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; PRIOR FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 6248  
; LENGTH: 925  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-106-698-6248  
Alignment Scores:  
Pred. No.: 0 Length: 925

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Percent Similarity:	100.00%	Conservative:	0
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Query Match:	94.53%	Indels:	0
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Db	24	LeuHisLeuLeuGluGlyAlaLeuSerAsnSerLeuIleGlnLeuAsnAsnGlyTyr	43
QY	121	GAAGGATTTGCTGTCGAATCGACCCCAATGTGCCAGAGATGAAACACTCATTTCAACAA	180
Db	44	GluGlyIleValValAlaIleAspProAsnValProGluAspGluThrLeuIleGlnGln	63
QY	181	ATAAAGGACATGCTGACCCAGGCATCTCTGTATCTCTTTGAAGCTACAGGAAAGCCGATT	240
Db	64	IleLysAspMetValThrGlnAlaSerLeuTyrLeuPheGluAlaThrGlyLysArgPhe	83
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Db	84	TyrPheLysAsnValAlaIleLeuIleProGluThrTrpLysThrLysAlaAspTyrVal	103
QY	301	AGACCAAACTTGAGACCTTACAAAATGCTGATGTTCTGGTTCCTGAGTCTACTCTCCCA	360
Db	104	ArgProLysLeuGluThrTyrLysAsnAlaAspValLeuValAlaGluSerThrProPro	123
QY	361	GGTAATGATGAACCCCTACACTGAGCAGATGGGCAACTGTGGAGAGAGGGTGAAGGATC	420
Db	124	GlyAsnAspGluProTyrThrGluGlnMetGlyAsnCysGlyGluLysGlyLeuArgIle	143
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QY	481	GCATTTGTCATCAGTGGGCTCATCTACGATGGGGAGTATTTCCAGGTACATATGAT	540
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QY	661	AATAAGTAAACAGGACTCTATGAAAAGGATGTGAGTTGTTTCTTCCAAATCCCCCAGACG	720
Db	224	AsnLysValThrGlyLeuTyrGluLysGlyCysGluPheValLeuGlnSerArgGlnThr	243
QY	721	GAGAAGCTTCTATAATGTTTGACAAACATGTTGATTCTATAGTCTGAATCTGTACAGAA	780
Db	244	GluLysAlaSerIleMetPheAlaGlnHisValAspSerIleValGluPheCysThrGlu	263
QY	781	CAAAACCAACAAGAAGCTCCAAACAAGCAAAATCAAAAATGCAATCTCCGAAGCAC	840
Db	264	GlnAsnHisAsnLysGluAlaProAsnLysGlnAsnGlnLysCysAsnLeuArgSerThr	283
QY	841	TGGGAAGTATCCGTCATTTCTGAGGACTTTAAGAAAACCACTCTCTATGACAAACAGCCA	900
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Db	304	ProAsnProThrPheSerLeuLeuGlnIleGlyGlnArgIleValCysLeuValLeuAsp	323
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; SEQ ID NO 8
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURES:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775
US-09-823-356-8

Alignment Scores:
Pred. No.: 0 Length: 914
Score: 4759.00 Matches: 914
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 93.68% Indels: 0
DB: 9 Gaps: 0

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QY 325 AATGCTGATGTTCTGCTGCTGAGTCTACTCTCCAGAGTAATCATGAACCCCTACCTGAG 384
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QY 385 CAGATGGGCAACTGTGGAGAGAGGGTGAAGGATCCACTCACTCCTGATTTTCATGCA 444
DB 121 GlnMetGlyAsnGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla 140
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DB 141 GlyLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis 160
QY 505 CTACGATGGGAGTATTTCAGAGTACAATAATGATGAGAAATTCATTATTCATGGA 564
DB 161 LeuArgTrpGlyValPheaspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180
QY 565 AGAATACAGCACTAAGATGTTTCAGAGGTPATTACTGGTACAAATGATAGTAAAGAAGTGT 624
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QY 1825 ACCAGCAAAATCCCAAGCCTCTGGTAGTTTATGCAAAATATTCGCAAGAGGCTCCCA 1884
DB 601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620
QY 1885 ATTCTCAGGGCCAGTGTCTACAGCCCTGATTAATCAAGTGAATGGAACAGGTTACCTTG 1944
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QY 1945 GAACTACTGGATAATGAGCAGCTGCTGATCTACTAAGGATGACGGTGTCTACTCAAGG 2004
Db 641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 660
QY 2005 TATTTTCAACAATTTATGACAGCAATGGTAGATACAGTGTAAAGTGGGGCTCTGGGAGGA 2064
Db 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680
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Db 681 ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700
QY 2125 TGGATTGAGATGATCAATGAAATACAAATCGAATCCACCAAGACCTCAAAATTAATAGGATGAT 2184
Db 701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720
QY 2185 GTTCAACACAAAGCAAGTGTGTTTTCAGCAGCAACATCTCGGGAGGCTCATTTGTGGTTCT 2244
Db 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740
QY 2245 GATGTCCCAAAATCTCCATACCTGATCTCTTCCACCTGGCCAAATACCCGACCTGAAG 2304
Db 741 AspValProAsnAlaProIleProAspLeuPheProGlyGlnIleThrAspLeuLys 760
QY 2305 GCGGAATTCACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGATGATTAT 2364
Db 761 AlaGluIleHisGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr 780
QY 2365 GACCATGGAACACGCTCACAGTATATCATTCGAATAAGTACAAGTATCTTGATCTCAGA 2424
Db 781 AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg 800
QY 2425 GACAAGTTCATGAATCTCTTCAAGTGAATATCTACTGCTCTCTATCCCAAGGAAGCCAAC 2484
Db 801 AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820
QY 2485 TCTGAGGAAGTCTTTTGTGTTTAAACACAGAAACATTACTTTTGAATAAGGCACAGATCTT 2544
Db 821 SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu 840
QY 2545 TTCAATGCTATTTCAGGCTGTGTAGATCGATCTGAATCGAATTCAGAAATATCCCAACATTGCA 2604
Db 841 PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla 860
QY 2605 CGAGTATCTTTGTTTATCTCCACAGACTCCGCCAGAGACCTAGTCTCTGATGAACG 2664
Db 861 ArgValSerLeuPheIleProProGlnThrProProGluThrProSerProAspGluThr 880
QY 2665 TCTGCTCTCTGCTTAATATTCATATCAACAGCAGCACCATTCTCGCATTCACATTTTAAA 2724
Db 881 SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys 900
QY 2725 ATTATGTGAAGTGGATAGGAACTGCAGCTGCTCAATAGCC 2766
Db 901 IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914
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## RESULT 4

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US-09-981-353-192
; Sequence 192, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
; APPLICANT: Lasek, Amy W.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US
; CURRENT APPLICATION NUMBER: US/09/981,353
; CURRENT FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO 192
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CD1
US-09-981-353-192
Alignment Scores:
Pred. No.: 0 Length: 914
Score: 4759.00 Matches: 914
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 93.68% Indels: 0
DB: 9 Gaps: 0
US-09-049-696-18 (1-2813) x US-09-981-353-192 (1-914)
QY 25 ATGGGGCCCAATTTAAGAGTTCTGTGTTCAATCTTGTGATCTTCACTTCTTAGAAGGGGCGCTG 84
Db 1 MetGlyProPheLysSerSerValPheIleLeuIleLeuHisLeuLeuGluGlyAlaLeu 20
QY 85 AGTAATTCATCTCATTCAGCTGAACAACAATGGCTATGAAGGCATTCGTTGCAATCGAC 144
Db 21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40
QY 145 CCCAATGTCCCAAGAGATCAAAACACTCATTAACAATAAAGACATGTGTGACCCAGGCA 204
Db 41 ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla 60
QY 205 TCTCTGTATCTGTTTGAAGCTACAGAAAGCGATTTTATTTCAAAATATGTTGCCATTTTG 264
Db 61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80
QY 265 ATTCTGAAACATGGAAGCAAGGCTGACTATGTGAGACCAAACTTGAGACCTACAAA 324
Db 81 IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys 100
QY 325 AATGCTGATGTTCTGTTGCTGCTGCTACTCTCCAGGTAATGATGAACCCCTACACTGAG 384
Db 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120
QY 385 CAGATGGGCAACTGTGGAGAGAGGTTGAAAGGATCCACCTCACTCTCATTTTCATTGCA 444
Db 121 GlnMetGlyAsnCysGlyGlyLysGlyGluArgIleHisLeuThrProAspPheIleAla 140
QY 445 GCAAAAAGTTAGTGAATATGACCAACAAGGTAGGCGCATTTGTCCTCAGTGGGCTCAT 504
Db 141 GlyLysLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis 160
QY 505 CTACGATGGGAGTATTTGACGAGTACAATAATGATGAGAAATTTCTACTTATCCAATGGA 564
Db 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180
QY 565 AGAATACAAAGCAGTAAAGATGTTTCAGCAGTATTTACTGGTACAAATAGTAGTAAGAAGTGT 624
Db 181 ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys 200
QY 625 CAGGAGGCGAGCTGTGTACACCAAAAGATGCACATTAATAAAGTACACAGACTCTTAGA 684
Db 201 GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu 220
QY 685 AAAGGATGTGAGTTGTTTCTCCAATCCCGCCAGACGAGAGGCTTCTATATGTTTGA 744
Db 221 LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla 240
QY 745 CAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAAACAAACCAACAAAGAGTCCA 804
Db 241 GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro 260
QY 805 AACACAGAAATCAAAAATGCAATCTCCCAAGCAGACATGGGAAGTGTGCTGATTTCTGAG 864
Db 261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu 280
QY 865 GACTTTAAGAAAAACCACTCTCTATGACAAACACAGCCACCAAAATCCCACTTCTCATTTGCTG 924
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Db 281 AspPheLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu 300  
QY 925 CAGATTGGCAAAAGAAATGTTAGTCTTTCACAAATCTCGAAGCATGGCGACATGGT 984  
Db 301 GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320  
QY 985 AACCGCTCAATCGACTGAATCAAGCAGGCGACGCTTTCTGTCGACAGAGTTGAGCTG 1044  
Db 321 AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu 340  
QY 1045 GGTCTCTGGGTTGGGATGGTGCATTTGACAGTGTCTGCCCATGTACAAAGTGAACATATA 1104  
Db 341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuLeu 360  
QY 1105 CAGATAAACAGTGGCAGTGCAGGACACACCTGCCAAAGATTAACCTGCAGCAGCTTCA 1164  
Db 361 GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaLysSer 380  
QY 1165 GAGGGACGTCCATCTGCAGGGGCTTCGATCGGCATTTACTGTGATTAGGAAGAAATAT 1224  
Db 381 GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr 400  
QY 1225 CCAACTGATGATCTGAAATGTGCTGCTACCGGATGGGGAACACACACTATAAGTGG 1284  
Db 401 ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly 420  
QY 1285 TGTCTTTAACGAGTCAAAAGTGGTGCCCATCATCCACAGCTCGCTTTGGGGCCCTCT 1344  
Db 421 CysPheAsnGluValLysGlnSerGlyAlaIleHisThrValAlaLeuGlyProSer 440  
QY 1345 GCAGCTCAAGAACTAGAGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCA 1404  
Db 441 AlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer 460  
QY 1405 GATCAAGTTCAAGAAATGGCTCATGATGCTTTGGGGCCCTTTCATCAGGAAATGGA 1464  
Db 461 AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly 480  
QY 1465 GCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAAACAGCCAG 1524  
Db 481 AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln 500  
QY 1525 TGGATGAATGGCAGTGTGTCGACAGCACCGTGGGAAAGACACTTTGTTTCTTATC 1584  
Db 501 TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle 520  
QY 1585 ACCTGACAAACGAGCTCCCAAAATCCTTCTCTGGGATCCAGTGGACAGAAAGGAT 1644  
Db 521 ThrTrpThrThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGly 540  
QY 1645 GGTCTTTGTAGTGACAAAAACCAAAATGGCTTACCTCCAAATCCAGGCACTTGTAAAG 1704  
Db 541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560  
QY 1705 GTTGGCACTTTGGAATACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTCAAG 1764  
Db 561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrValThrValThr 580  
QY 1765 TCCGTGCTGCTCAATGCTACCTGCTCCAAATTAAGTGTACTTCCAAACAGAAACAGGAC 1824  
Db 581 SerArgAlaSerAsnAlaThrLeuProProIleThrValThrSerLysThrAsnLysAsp 600  
QY 1825 ACCAGCAAAATCCCGACCTCTGGTAGTTTATGCAAAATATTCGCAAGGAGCTCCCA 1884  
Db 601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
QY 1885 ATTCTCAGGGCCAGTGTCAAGCCCTCATTAATCACTGATGAATGAAAAACAGTTTACCTTG 1944  
Db 621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640  
QY 1945 GAACTACTGATTAATGGAGGAGTGTGATGCTTAAAGATGACGGTGTCTACTCAAGG 2004

Db 641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 660  
QY 2005 TATTTCACAACTTATGACACGAATGGTAGATACAGTGTAAAAGTGGCGGCTCTGGGAGGA 2064  
Db 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680  
QY 2065 GTTAAACGACCCAGAGGAGAGTATACCCACAGAGTGGAGCACTGTACATACCTGGC 2124  
Db 681 ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700  
QY 2125 TGCATTGAGAAATCATGAAATACAAATCGAATCCACCAAGACTGAAATTAATAAGGATGAT 2184  
Db 701 TrpIleLeuAsnAspGluIleGlnTrpAsnProArgProGluIleAsnLysAspAsp 720  
QY 2185 GTTCAACACAAAGCAAGTGTGTTTTCAGCAGAACTCTCCGGAGGCTCATTTGTGGCTTCT 2244  
Db 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740  
QY 2245 GATGTCCCAAAATCTCCCATACCTGATCTCTCCACCTGGCCAAATCAGCGACCTGAAG 2304  
Db 741 AspValProAsnAlaProIleProAspLeuPheProGlyGlnIleThrAspLeuLys 760  
QY 2305 GCGGAAATTCACGGGGCGAGTCTCATTAATCTCACTTGGACAGCTCTCGGGATGATTAT 2364  
Db 761 AlaGluIleHisGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr 780  
QY 2365 GACCATGGAAACAGCTCACAGTATATCATTCGAATAAGTACAAGTATTTCTTGATCTCAGA 2424  
Db 781 AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg 800  
QY 2425 GACAAGTTCAAATGAATCTCTCAAGTGAATATCTACTGCTCTCATCCAAAGAAAGCAAC 2484  
Db 801 AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820  
QY 2485 TCTGAGGAAGTCTTTTGTATTAAACCAAGAAACACTTACTTTTGAATATGCACAGATCTT 2544  
Db 821 SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu 840  
QY 2545 TTCATTGCTATTTCAGGCTGTTGATGAAGTGCATCTGAAATCAGAAATATCAACATTGCA 2604  
Db 841 PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla 860  
QY 2605 CGAGTATCTTTGTTTATCTCCACAGACTCCGCGCAGAGACACTTAGTCTCTGTATGAACG 2664  
Db 861 ArgValSerLeuPheIleProGlnThrProGluThrProSerProAspGluThr 880  
QY 2665 TCTGCTCTCTGCTTAATATTCATATCAACAGCACTTCTCGCATTCACATTTTAAA 2724  
Db 881 SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys 900  
QY 2725 ATTATGTGAAGTGGATAGGAACTGCAGCTGTCAATAGCC 2766  
Db 901 IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914

## RESULT 5

US-09-833-245-2054  
; Sequence 2054, Application US/09833245  
; Publication No. US20040010134A1  
; GENERAL INFORMATION:  
; APPLICANT: Human Genome Sciences, Inc.  
; TITLE OF INVENTION: Albumin Fusion Proteins  
; FILE REFERENCE: PF546PCT  
; CURRENT APPLICATION NUMBER: US/09/833,245  
; CURRENT FILING DATE: 2001-04-12  
; PRIOR APPLICATION NUMBER: 60/229, 358  
; PRIOR FILING DATE: 2000-04-12  
; PRIOR APPLICATION NUMBER: 60/256, 931  
; PRIOR FILING DATE: 2000-12-21  
; PRIOR APPLICATION NUMBER: 60/199, 384  
; PRIOR FILING DATE: 2000-04-25  
; NUMBER OF SEQ ID NOS: 2267  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 2054



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; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-833-245-2054

Alignment Scores:
Pred. No.: 0 Length: 914
Score: 4759.00 Matches: 914
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 93.68% Indels: 0
DB: 11 Gaps: 0

US-09-049-696-18 (1-2813) x US-09-833-245-2054 (1-914)
QY 25 ATGGGGCCATTAAAGAGTTCTGTGTTCACTTGATCTTCACCTTCTAGAGGGGCCCTG 84
DB 1 MetGlyProPheLysSerValPheIleLeuIleLeuHisLeuLeuGluGlyAlaLeu 20
QY 85 AGTAATTCACTCACTCAGCTGAAACAATGGTATGAAGGCATTCTCGTTGCAATCGAC 144
DB 21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40
QY 145 CCCAATGTGCGAGAGATGAAACACTTTCACAAATAAAGACATGGTGACCCAGGCA 204
DB 41 ProAsnValProGluAspGluThrLeuIleGlnGlnIleLysAspMetValThrGlnAla 60
QY 205 TCTCTGTACTGTTGAAGCTACAGAAAGCGATTTTATTTCAAAATGTTGCCATTTTG 264
DB 61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80
QY 265 ATTCTGTAACATGGAAGACAAAGGCTGACTATGTGAGACCAAACTTCAGACCTACAA 324
DB 81 IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys 100
QY 325 AATGCTGATGTTCTGCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTGAG 384
DB 101 AsnAlaAspValLeuValAlaGluSerThrProGlyAsnAspGluProTyrThrGlu 120
QY 385 CAGATGGGCAACTGTGGAGAAAGGTGAAAGGATCCACTCACTCTCTGATTCATGCA 444
DB 121 GlnMetGlyAsnGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla 140
QY 445 GGAATAAGTTAGTCAATATGACACCAAGGTAGGCGATTTCTCCATGAGTGGGCTCAT 504
DB 141 GlyLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis 160
QY 505 CTACGATGGGAGTATTTCACGAGTACAATAATGATGAGAAATTCCTACTTATCCAAATGGA 564
DB 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180
QY 565 AGAATACAGCAGTAAGATTTCAGCAGGTATTACTGGTACAAATGATAGTAAGAAGTGT 624
DB 181 ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys 200
QY 625 CAGGGAGGAGCTGTTACACCAAAAGATGCACATTCATAAAGTAAACAGACTCTATGAA 684
DB 201 GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu 220
QY 685 AAAGGATGTGAGTTGTTCTCCAAATCCCGCAGCAGAGAGGCTTCTATAATGTTTGCA 744
DB 221 LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla 240
QY 745 CAACATGTTGATTCATAGTTGAATTCGTACAGAACAAACCCACAAAGAGAGCTCCA 804
DB 241 GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro 260
QY 805 AACAAACAAATCAAAATGCAATCTCCGAAGCACATGGGAAGTATCGGTGATTCGTAG 864
DB 261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu 280
QY 865 GACTTTTAAGAAAACCACTCTCATGACAACACAGCCCAAAATCCCACTTCTCATTTGCTG 924
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DB 281 AspPheLysLysThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu 300
QY 925 CAGATTGGACAAAGAAATTCGTGTTTAGTCCTTGACAAATCTGGAAGCATGGCACTGGT 984
DB 301 GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320
QY 985 AACCGCCTCAATCGACTGAATCAAGCAGCCAGCTTTTCTGCTGAGACAGTTGAGCTG 1044
DB 321 AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu 340
QY 1045 GGGTCTCTGGTTGGGATGGTGAATTTGACAGTGTGCCCATGTACAAAGTGAAGTCAATA 1104
DB 341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle 360
QY 1105 CAGATAAACAGTGGCAGTGACAGGACACACTCGCCAAAGATTACTCTCAGCAGCTTCA 1164
DB 361 GlnIleAsnSerGlySerAspArgThrLeuAlaLysArgLeuProAlaAlaAsp 380
QY 1165 GGAGGAGCTCCATCTGCACGGGGCTTCGATCGGCATTTTACTGTGATTAGGAAGAAATAT 1224
DB 381 GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr 400
QY 1225 CCACTGATGATCTGAAATTTGTGCTGTCGACGGATGGGAAGACAACTATTAAGTGGG 1284
DB 401 ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly 420
QY 1285 TGCCTTAACGAGGTCAACAAAGTGGTCCATCATCCACACAGTCCCTTTGGGGCCCTCT 1344
DB 421 CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440
QY 1345 GCAGCTCAAGAACTAGAGGAGCTGTCCAAATATGACAGGAGGTTTACAGACATATGCTTCA 1404
DB 441 AlaAlaGlnGluLeuGluGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer 460
QY 1405 GATCAAGTTTCAGACAAATGGCCTCAATTGATGCTTTTGGGGCCCTTTTCATCAGAAATGGA 1464
DB 461 AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly 480
QY 1465 GCTGTCTCTCCGCGTCCATCCAGCTTGAGATGAGGATTAACCTCCAGACACAGCAG 1524
DB 481 AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln 500
QY 1525 TGGATGAATGGCACAGTGTGTCGTCGACACACCGCTGGGAAGGACACTTTGTTTCTTATC 1584
DB 501 TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle 520
QY 1585 ACCTGACAAACGAGCCTCCCAATCTCTCTGCGATCCCAAGTGGAGCAGCAAGCAAGGT 1644
DB 521 ThrTrpThrThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGly 540
QY 1645 GCTTTGTAGTCGACAAACACCAAAATGGCTTACTCTCCAAATCCAGCAGCTTGTAAAG 1704
DB 541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560
QY 1705 GTTGGCAGCTTGGAAATACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTCAAG 1764
DB 561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr 580
QY 1765 TCCGTGCTCCAAATGCTACCTGCTCCAAATTCAGTGAATTCAGTGAATTCAGTGAATTC 1824
DB 581 SerArgAlaSerAsnAlaThrLeuProIleThrValThrSerLysThrAsnLysAsp 600
QY 1825 ACCAGCAATTCCTCCAGCCCTCTGCTAGTATTCGCAAAATATTCGCAAGGAGCTCCCA 1884
DB 601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620
QY 1885 ATTCTCAGGGCCAGTGTCTACAGCCCTGATTAAGTGAATTCAGTGAATTCAGTGAATTC 1944
DB 621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640
QY 1945 GAACTACTGATTAAGGACGAGTGTGCTGATCTACTAAGATGACCGGTGTCTACTCAAG 2004
DB 641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 660
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QY 2005 TATTTCACAACTTATGACAGAAATGGTAGATACAGTGTAAAAAGTGCAGGCTCTGGAGGA 2064
Db 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680
QY 2065 GTTAAACGACGACGAGAGTATACCCAGCAGAGTGGAGCAGTGTACATCTGGC 2124
Db 681 ValAsnAlaAlaArgArgValIleProGlnSerGlyAlaLeuTyrIleProGly 700
QY 2125 TGGATTGAGAAATGATGAATACAAATGGAATCCACAGACCTGAAATTAATAAGGATGAT 2184
Db 701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720
QY 2185 GTTCAACACAGCAAGTGTGTTTCAGCAGAACATCTCTGGAGAGCTCATTTGGCTTCT 2244
Db 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740
QY 2245 GATGTCCCAATCTCCATACCTGATCTCTCCACCTGGCCAAATCACCAGCTGAAG 2304
Db 741 AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuLys 760
QY 2305 GCGGAAATTCACGGGGGAGCTCTCATTAATCTGACTTGGACAGCTCTCTGGGGATGATTAT 2364
Db 761 AlaGluIleHisGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr 780
QY 2365 GACATGGAACAGCTCAAGTATATCATTCGAATAGTACAAAGTATTTCTGTCTCAGA 2424
Db 781 AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg 800
QY 2425 GACAAGTTCAATCAATCTCTCAAGTCAATACTACTCTCTCATCCCAAGGAGCCAAC 2484
Db 801 AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820
QY 2485 TCTGAGGAAGCTCTTTTGTAAACACAGAAACATTAATTTTCAAAATGGCACAGATCTT 2544
Db 821 SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu 840
QY 2545 TTCAATTCCTATTGAGCTGTGTATAGGTGCATCTGAAATTCAGAAATATCCAACTTGCA 2604
Db 841 PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla 860
QY 2605 CGAGTATCTTGTATTCTTCACAGACTCCGCCAGACACTAGTCTGTATGAACG 2664
Db 861 ArgValSerLeuPheIleProProGlnThrProProGluThrProSerProAspGluThr 880
QY 2665 TCTGCTCTTGTCTAATATTATATCAACAGCACCATTCTCTGSCATTTCATTTTAAAA 2724
Db 881 SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys 900
QY 2725 ATTATGTGAAGTGGATGAGAGAACTGCAGCTGTCAATAGCC 2766
Db 901 IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914
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## RESULT 6

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US-10-235-994-26
; Sequence 26, Application US/10235994
; Publication No. US20030101002A1
; GENERAL INFORMATION:
; APPLICANT: Bartha, Gabor
; APPLICANT: Walker, Michael
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS
; FILE REFERENCE: ICYTP012
; CURRENT APPLICATION NUMBER: US/10/235,994
; CURRENT FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: US/10/003,608
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,081
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 914
; TYPE: PRT
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## ; ORGANISM: Human

US-10-235-994-26

## Alignment Scores:

Pred. No.:	0	Length:	914
Score:	4759.00	Matches:	914
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	93.68%	Indels:	0
DB:	14	Caps:	0

US-09-049-696-18 (1-2813) x US-10-235-994-26 (1-914)

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QY 25 ATGGGCGCAATTAAAGAGTCTGTGTTCACTTCACTTCACTTCTAGAAAGGGCGCTG 84
Db 1 MetGlyProPheLysSerValPheIleLeuHisLeuLeuGluGlyAlaLeu 20
QY 85 AGTAATCTACTCATTCCAGCTGACAAACAATGGCTATGAGGCAATTCCTGTTGAATCGAC 144
Db 21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40
QY 145 CCCAATGTGCGAGAAGATGAACACATCTCAATCAACAAATAAAGACATGGTGACCCAGGCA 204
Db 41 ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla 60
QY 205 TCTCTGTATCTGTTTCAAGCTACAGAAACCGATTTTATTTCAAAATGTTGCCATTTG 264
Db 61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80
QY 265 ATTCTCTGAACATGGAAGACAAAGGCTGACTATGTGAGACCAAACTTGAGACCTACAAA 324
Db 81 IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys 100
QY 325 AATGCTGATGTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 384
Db 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120
QY 385 CAGATCGGCAACTGTGCGAGAGAGGGTGAAAGGATCCACCTCACTCTCTGATTTTCATTGCA 444
Db 121 GlnMetGlyAsnCysGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla 140
QY 445 GGAATAAGTTAGCTCAATATGACACCAAGGTAGGGCATTTTCCATGAGTGGGTCAT 504
Db 141 GlyLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis 160
QY 505 CTACGATGGGAGTATTTCAGCAGTACAATAATGATGAGAAATCTTACTTATCCAATGGA 564
Db 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180
QY 565 AGAATCAACAGCAGTAAAGATGTTTCAGCAGGTATTACTGGTACAAATGTAGTAAAGAAGTGT 624
Db 181 ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys 200
QY 625 CAGGAGGAGCAGCTGTTTACACCAAAAGATGCACATTCATTAAGTAACAGACACTCTATGAA 684
Db 201 GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu 220
QY 685 AAGAGTGTGAGTTGCTTCTCCAATCCCGCAGCGAGAGGCTTCTATAATGTTTGTGA 744
Db 221 LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla 240
QY 745 CAACATGTTGATTCTATAGTTGAATTTCTGTACAGAAACAAACCAACCAAGAGAGTCCA 804
Db 241 GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro 260
QY 805 ACAACAGCAAAATCAAAATATCCATCTCCGAGCAGCATGGAAGTGTATTCGTGATCTGAG 864
Db 261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu 280
QY 865 GACTTTAAGAAACCACTCCTATGACACACAGCCACCAATCCCACTTCTCATTCGCTG 924
Db 281 AspPheLysLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu 300
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925 QY CAGATTGGCAAAAGATTGTGTGTTAGTCTTGACAAATCTGGAAAGCATGGCAGTGT 984  
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QY AACCGCCTCAATGCACTGAATCAAGCAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTG 1044  
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321 Db AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu 340  
QY GGGTCTCGGTGGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 1104  
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341 Db GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle 360  
QY CAGATAAACAGTGGCAGTCACAGGACACACTCGCCAAAAGATTACTGCAGCAGCTTCA 1164  
Db |||||  
361 GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSer 380  
QY GGAGGACGCTCCATCTGCAGCGGGCTTCGATCGGCATTTACTGTGATTAGGAAGAAATAT 1224  
Db |||||  
381 GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr 400  
QY CCNACTGATGGATCTGAATTTGCTGCTGACGGATGGGAGACACACTATAAGTGG 1284  
Db |||||  
401 ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly 420  
QY TGCTTTAACGAGGTCAAAACAAAGTGTGCCATCATCCACACAGTCTGCTTTGGGGCCCTCT 1344  
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421 CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440  
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441 AlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer 460  
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461 AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly 480  
QY GCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGATTAACTCCAGAACAGCCAG 1524  
Db |||||  
481 AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln 500  
QY TGGATGAATGGCAGTGTGCGGACAGCCGTCGGAAAGACACTTGTGTTCTTATC 1584  
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501 TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle 520  
QY ACCTGACAAAGCAGCTCCCAAAATCTTCTCTGGATCCAGTCGACAGCAAGT 1644  
Db |||||  
521 ThrTrpThrThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGly 540  
QY GGGTGTGTAGTGACAAAACACAAATGGCTTACTCTCCAAATCCAGGCATTGCTAAG 1704  
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QY GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGCTGACG 1764  
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561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr 580  
QY TCCCGTGGCTCAATGCTACCTCCCTCCATTTACAGTGACTTCCAAAACAGCAAGGAC 1824  
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581 SerArgAlaSerAsnAlaThrLeuProIleThrValThrSerLysThrAsnLysAsp 600  
QY ACCAGCAAAATCCCGAGCCCTCTGGTAGTTTATGCAAAATATTCGCAAGGAGCTCCCA 1884  
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601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
QY ATTCTCAGGCGCAGTGTACAGCCCTGATTGAATCAGTGAATGGAAGAAACAGTTTACCTTG 1944  
Db |||||  
621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640  
QY GAATCTGATGATGAGCAGGCTGCTGATGCTACTAAGATGACCGTGTCTACTCAAGG 2004  
Db |||||  
641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspGlyValTyrSerArg 660  
QY TATTTTCAACTTATGACACGAATGGTAGATACAGTGTAAAGTGGCGGCTCTGGGAGGA 2064

661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680  
QY GTTAAAGCAGCAGCAGGAGAGTATACCCAGCAGAGTGGAGCACTGTACATACCTGCG 2124  
Db |||||  
681 ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700  
QY TCGATTGAAGATGATGAATACAATCGAATCCACCAAGACCTGAAATTAATTAAGGATGAT 2184  
Db |||||  
701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720  
QY GTTCAACCAACAAGTGTGTTTCAGCAGAACATCTCGGAGGCTCATTTGTGGCTTCT 2244  
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QY GATGTCCCAATGTCTCCCATCTCATCTCTCCACCTCGGCCCAATCACCCACCTGAAG 2304  
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761 AlaGluIleHisGlyGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr 780  
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881 SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys 900  
QY ATTATGTGAAGTGGATAGGAGAACTGCGAGCTGTCAATAGCC 2766  
Db |||||  
901 IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914

## RESULT 7

US-10-060-255-42  
; Sequence 42, Application US/10060255  
; Publication No. US20030113840A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 25 Human secreted proteins  
; FILE REFERENCE: P2042P1  
; CURRENT APPLICATION NUMBER: US/10/060,255  
; CURRENT FILING DATE: 2002-02-01  
; PRIOR APPLICATION NUMBER: 09/781,417  
; PRIOR FILING DATE: 2001-02-13  
; PRIOR APPLICATION NUMBER: PCT/US00/22325  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: 60/149,182  
; PRIOR FILING DATE: 1999-08-17  
; NUMBER OF SEQ ID NOS: 86  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 42  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens



Db 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680  
QY 2065 GTTAAAGCCAGCAGAGAGAGTATACCCAGCAGAGTGGACCTGTACATACCTGCG 2124  
Db 681 ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700  
QY 2125 TGGATTGAGAATGATGAATACAAATGGAATCCCAAGACCTGAAATTAATGAAGATGAT 2184  
Db 701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720  
QY 2185 GTTCAACACAGCAAGTGTGTTTTCAGCAGAACATCTCGGAGGCTCATTTGGGCTTCT 2244  
Db 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740  
QY 2245 GATGTCCTCCAAATGCTCCATACCTGATCTCTCCGACCTGGCCAAATCACCAGCTGAAG 2304  
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QY 2365 GACCATGGACAGCTCACAGTATATCATTCGAATAAGTACAAAGTATCTTGATCTCAGA 2424  
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QY 2425 GACAAGTTCATGAATCTCTCAAGTGAATATCTACTGCTCTCATCCCAAGAGCAAC 2484  
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QY 2545 TTCATTGCTATTACAGGCTGTGTATAAGTGTGATCTGAAATCAGAAATATCCACATTGCA 2604  
Db 841 PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla 860  
QY 2605 CGAGTATCTTTGTTTATCTCCACAGACTCCCGCAGAGACCTAGTCTGTATGAACG 2664  
Db 861 ArgValSerLeuPheIleProGlnThrProGluThrProSerProAspGluThr 880  
QY 2665 TCTGCTCTTGTCTTAATATTCATATCAACAGCAGCATTCTCGGCATTTCATTTTAAAA 2724  
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QY 2725 ATTATGTGAAGTGGATAGAGAACTCCAGCTCTCAATAGCC 2766  
Db 901 IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914

## RESULT 8

US-09-922-217-1066  
; Sequence 1066, Application US/09922217  
; Patent No. US20020076414A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Smith, Carole Lynn  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.471C13  
; CURRENT APPLICATION NUMBER: US/09/922,217  
; CURRENT FILING DATE: 2001-08-03  
; NUMBER OF SEQ ID NOS: 1124

; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 1066  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-922-217-1066

Alignment Scores:  
Pred. No.: 0 Length: 914  
Score: 4756.00 Matches: 913  
Percent Similarity: 100.00% Conservative: 1  
Best Local Similarity: 99.89% Mismatches: 0  
Query Match: 93.62% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-18 (1-2813) x US-09-922-217-1066 (1-914)

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Db 21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40  
QY 145 CCCAATGTGCCAAGATGAAACACTCATTCAACAAATAAAGGACATGTCGCCACCGCA 204  
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QY 205 TCTCTGTATCTCTTGAAGCTACAGAAAGCGATTTTATTTCAAAATGTTGCCATTTTG 264  
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QY 265 ATTCTGAAACATGGAAGCAAGGCTGACTATGTGAGACCAAACTTGAGACCTACAA 324  
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QY 325 AATGCTGATGTTCTGGTCTGCTGAGTCTACTCTCCAGGTAATGATGAACCTACACTGAG 384  
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QY 445 GGAATAAGTTAGTGAATATGACCAAGGTAGGGCATTTGCTCCATGATGGGCTCAT 504  
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QY 505 CTACGATGGGAGTATTTGACGAGTACATAATGATGAGAAATTCCTATTATCCTCAATGGA 564  
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QY 565 AGAATACAGCAGTAAAGATGTTTCAGCAGGTATTTACTGTGTACAAATGATGTAAGAAGTGT 624  
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QY 625 CAGGAGGCGAGCTGTTTACCAAAAGATGCCATTCATAAAGTAAACAGACTCTATGAA 684  
Db 201 GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu 220  
QY 685 AAAGGATGTGAGTTGTTCTTCCAAATCCCGCCAGACGAGAGGCTTCTATATGTTTGGCA 744  
Db 221 LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla 240  
QY 745 CAACATGTTGATTCTATAGTTGAATTTCTGTACAGACCAAAACCAACAAAGAGTCCA 804  
Db 241 GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro 260  
QY 805 AACAGCAAAATCAAAATGCAATCTCCGAGCAGCATGCGAAGTGTGATCGTGAATTCGAG 864  
Db 261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu 280

QY 865 GACCTTTAAGAAAACCACTCTATGACAAACAGCCACCAATCCACCTTCTCTATGCTG 924  
Db 281 AspPheLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu 300  
QY 925 CAGATTGGACAAAGATTGTTAGTCTCTGACAAATCTGGAAGCATGGGAGCTGGT 984  
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QY 985 AACCGCTCAATCGACTGAATCAAGCAGCGGCGAGCTTTCTGCTGACAGAGTTGAGCTG 1044  
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QY 1045 GGTCTCTGGTGGTGGTGGTGCACATTTGACAGTGTCTCCCATGTACAAAGTGAACCTATA 1104  
Db 341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuLeu 360  
QY 1105 CAGATAAACAGTGGCAGTGACGGGACACACTCGCCAAAGATTACCTGCAGCAGCTTCA 1164  
Db 361 GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaAspSer 380  
QY 1165 GGAGGGACGTCCATCTGCAGCGGGCTTCGATCGGCATTTACTGTGATTAGGAAGAAATAT 1224  
Db 381 GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr 400  
QY 1225 CCAACTGATGATCTGAATTTGCTGCTGACGGATGGGGAAGACAACTATTAAGTGGG 1284  
Db 401 ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly 420  
QY 1285 TGCCTTTAACCGAGTCAAAAGTGGTGCCATCATCCACAGCTGCCTTTGGGGCCCTCT 1344  
Db 421 CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440  
QY 1345 GCAGCTCAAGAACTAGAGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCA 1404  
Db 441 AlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer 460  
QY 1405 GATCAAGTTGAGAAATGCGCTCATGATGCTTTGGGCGCTTTCATCAGGAATGGA 1464  
Db 461 AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly 480  
QY 1465 GCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACGCCAG 1524  
Db 481 AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln 500  
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Db 501 TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuLeu 520  
QY 1585 ACCTGACAAACGAGCTCTCCCAATCTCTCTGGAATCCAGTGGACAGAGCAAGGT 1644  
Db 521 ThrTrpThrThrGlnProProGlnIleLeuLeuLeuTrpAspProSerGlyGlnLysGlnGly 540  
QY 1645 GGTCTTTGTAGTGACAAAACCAATGCGCTTACTCCAAATCCAGCATGCTAG 1704  
Db 541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560  
QY 1705 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGCTGTCACG 1764  
Db 561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr 580  
QY 1765 TCCGTGCGTCCAATGCTACCTGCTCCAAATACAGTACTTCCAAACAGCAAGGAC 1824  
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QY 1825 ACCAGCAATTTCCCGCCCTCTGGTAGTTTATGCAATATTCGCCAAGAGGCTCCCA 1884  
Db 601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
QY 1885 ATTCTCAGGGCCAGTGTGCAGCGCTGATGAATCGATGAATGGAATAACAGTTACTCTG 1944  
Db 621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640  
QY 1945 GAACACTAGTAATGGAGCAGGTGCTGATGCTACTAAGGATGACGGTGTCTACTCAAGG 2004

Db 641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 660  
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QY 2065 GTTAAACGACCCAGACGAGAGTGATACCCACAGAGTGGAGCACTGTATACATCTGGC 2124  
Db 681 ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700  
QY 2125 TGGATTGAGAAATGATGAAATACAAATGGAATCCACCAAGACCTGAAATATATAGGATGAT 2184  
Db 701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720  
QY 2185 GTTCAACACAAAGCAAGTGTGTTTTCAGCAGAACTCTCGGGAGGCTCATTTGTGGCTTCT 2244  
Db 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740  
QY 2245 GATGTCCCAAAATGCTCCCATACCTGATCTCTCCACCTGGCCAAATCACCGACCTGAAG 2304  
Db 741 AspValProAsnAlaProIleProAspLeuPheProGlyGlnIleThrAspLeuLys 760  
QY 2305 GCGGAAATTCACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGGATGATTAT 2364  
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QY 2365 GACCATGGAACAGCTCAAGATATATCATTCGAATAAGTACAAAGTATTCTTGATCTCAGA 2424  
Db 781 AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg 800  
QY 2425 GACAACTTCAATGAATCTCTTCAAGTGAATACTACTCTCATCTCCAAAGGAAGCAAC 2484  
Db 801 AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820  
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## RESULT 9

US-09-833-263-1066  
; Sequence 1066, Application US/09833263  
; Patent No. US20020110547A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Stolk, John A.  
; APPLICANT: Meagher, Madeleine J.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.471C12  
; CURRENT APPLICATION NUMBER: US/09/833,263  
; CURRENT FILING DATE: 2001-04-10  
; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FASTSEQ for Windows Version 3.0  
; SEQ ID NO 1066  
; LENGTH: 914

! TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-833-263-1066

Alignment Scores:  
Pred. No.: 0 Length: 914  
Score: 4756.00 Matches: 913  
Percent Similarity: 100.00% Conservative: 1  
Best Local Similarity: 99.89% Mismatches: 0  
Query Match: 93.62% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-18 (1-2813) x US-09-833-263-1066 (1-914)

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QY 205 TCTCTGTATCTGTTTCAAGCTACAGAAAGCGATTTTATTCNAATGTTGCCATTTTG 264
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QY 385 CAGATGGGCAACTGTGGAGAGAGGTGAAGGATCCACTCACTCTGATTCATTGCA 444
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RESULT 11  
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; Sequence 6, Application US/10270595  
; Publication NO. US20030078409A1  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; CURRENT FILING DATE: 2002-10-16





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US-10-055-412B-28  
; Sequence 28, Application US/10055412B  
; Publication No. US20030059861A1  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 28  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
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Score: 4753.00 Matches: 912  
Percent Similarity: 100.00% Conservative: 2  
Best Local Similarity: 99.78% Mismatches: 0  
Query Match: 93.56% Indels: 0  
DB: 14 Gaps: 0  
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81 IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys 100  
QY 325 RATGCTGATGTTCTGGTTCCTGAGTCTACTCTCTCAGGTAATGATGAACCCCTACACTGAG 384  
Db |||||  
101 AsnAlaAspValLeuValAlaGluSerThrProGlyAsnAspGluProTyrThrGlu 120  
QY 385 CAGATGGGCAACTGTGGAGAGAGGCTGAAAGATCCACCTCACCTCTGATTTCAATTCGA 444  
Db |||||  
121 GlnMetGlyAsnCysGlyGluArgGlyGluArgIleHisLeuThrProAspPheIleAla 140  
QY 445 GGAATAAAGTTAGCTGAATATGACACCAAGTATGGGCAATTTGTCCATGAGTGGGCTCAT 504  
Db |||||  
141 GlyLysLysLeuAlaGluTyrGlyProGlnGlyLysAlaPheValHisGluTrpAlaHis 160  
QY 505 CTACCATGGGAGTATTCAGCAGTACATATATGATGAGAAATTTCTATTATCCCATGCA 564  
Db |||||  
161 LeuArgTpgIlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180  
QY 565 AGAATACAAGCAGTAGATGTTTTCAGCAGGTATTACTGGTACAAATGTAGTAAAGAGTGT 624

181 ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys 200  
625 CAGGAGGAGAGCTGTTACACCAAAAGATGCACATTCATAAAGTAACAGAGACTCTATGAA 684  
201 GlnGlyGlySerCysTyrThrLysA-GCysThrPheAsnLysValThrGlyLeuTyrGlu 220  
685 AAAGGATGTAGTTGCTTCCAAATCCCGCAGACGAGAGGCTCTCTATATGTTTGA 744  
221 LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla 240  
745 CAACATGTTGATTCTATAGTTGAATCTGTACAGAACAAACACACAAAGAGCTCCA 804  
241 GlnHisValAspSerIleValGluPheCysThrGlnAsnHisAsnLysGluAlaPro 260  
805 AACAAACAAAATCAAAATCAATCCGAAGCACATGGGAAGTGAATCTGATCTGAG 864  
261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu 280  
865 GACTTTAAGAAACCACTCTCTATGACAAACAGCCACCAATCCCACTTCTCATTTGCTG 924  
281 AspPheLysLysThrThrProMetThrThrGlnProAsnProThrPheSerLeuLeu 300  
925 CAGATTGGACAAGATTGTTGTTAGTCTTGCATCTGACAAATCTGGAAGCATGGCTGCT 984  
301 GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320  
985 AACCGCTCAATCGACTGAATCAAGCAGCGCAGCTTTCTCTGTCGACAGAGTTGAGCTG 1044  
321 AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu 340  
1045 GGCTCTGGTGGGATGTGACATTGACAGTGTGCCCATGTACAAAGTGAACCTCAT 1104  
341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle 360  
1105 CAGATAACAGTGGCAGTACAGGGACACACTGCCAAAAGATTACTCGCAGCAGCTTCA 1164  
361 GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSer 380  
1165 GGAGGACCTGCATCTGCAGCGGGCTTCGATCGGCATTTACTGTGATTAGGAAGAATAT 1224  
381 GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr 400  
1225 CCAACTGATGGATCTGAATTTGCTGTGCTGACGGATGGGGAAGACAACTATAAGTGG 1284  
401 ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly 420  
1285 TGCCTTTAAGAGGTCAAAACAAAGTGTGCATCATCCACAGTCCCTTTGGGGCCCTCT 1344  
421 CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440  
1345 GCAGCTCAAGAACTAGAGAGCTGTCCAAAATGCACAGGAGGTTTACAGACATATGCTCA 1404  
441 AlaAlaGlnGlnLeuGluLeuSerLysMetThrGlyCysLeuGlnThrTyrAlaSer 460  
1405 GATCAAGTTTCAGAAATGCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAATGGA 1464  
461 AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly 480  
1465 GCTGTCTCTCAGGCTCCATCCAGCTTGAGATGAGGATTAACCTCCAGAACAGCCAG 1524  
481 AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln 500  
1525 TGGATGAATGGCAGCTGATCTGTGGACAGCCGCTGGGAAGACACTTGTGTTCTATC 1584  
501 TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle 520  
1585 ACCTGACAAACGAGCCTCCCCAAATCTTCTCTGGGATCCCAAGTGGACAGAGCAAGGT 1644  
521 ThrTrpThrThrGlnProGlnIleLeuLeuThrAspProSerGlyGlnLysGlnGly 540  
1645 GGCTTTGTAGTGACAAAACACAAATGGGCTTACTCTCAATGCCATGCTAAG 1704

541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560  
1705 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTCAAG 1764  
561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuValThr 580  
1765 TCCGTGCGTCCAATGCTACCTCCCTCCAAATTACAGTACTTCCAAAACGACCAAGGAC 1824  
581 SerArgAlaSerAsnAlaThrLeuProIleThrValThrSerLysThrAsnLysAsp 600  
1825 ACCAGCAAAATCCCAAGCCCTCTGTTAGTTTATGCAAAATATTCGCAAGGAGCTCCCCA 1884  
601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
1885 ATTCTCAGGGCCAGTGTCAAGCCCTGATTGAATCAAGTGAATGAAAAACAGTTACTCTG 1944  
621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640  
1945 GAACTACTGATAATGGACAGGTGCTGATGCTACTACTAAGATGACGGTGTCTACTCAAG 2004  
641 GlnLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 660  
2005 TATTTCCAACTTATGACACGAATGCTAGATACAGTGAAGTGAAGTGGGGCTCTGGGAGGA 2064  
661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680  
2065 GTTAAACGACGACGAGAGTGTATACCCAGCAGAGTGGAGCACTGTACATACCTGGC 2124  
681 ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700  
2125 TGGATTGAAATGATGAATACAAATCAATGGAATCCCAAGACCTGAAATTAATAGATGAT 2184  
701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720  
2185 GTTCAACAACAAGTGTGTTTCAGCAACAATCTCCGGAGGCTCATTTGGTGGTCT 2244  
721 ValGlnHisGlyGlnValCysPheSerArgThrSerSerGlyLysPheValAlaSer 740  
2245 GATGTCCCAATGCTCCCATACCTGATCTCTTCCCACTTCCCACTGGCCAAATCACCGACCTGAAG 2304  
741 AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuLys 760  
2305 GCGGAAATTCACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGAGATGATAT 2364  
761 AlaGluIleHisGlyGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr 780  
2365 GACCATGGAACAGCTCACAGTATATCATTCGATAAGTACAGATATTCTTGATCTCAGA 2424  
781 AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg 800  
2425 GACAAAGTTCAATGAATCTCTTCAAGTGAATATCTACTGCTCTCATCCCAAGGAAGCAAC 2484  
801 AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820  
2485 TCTGAGGAAGTCTTTTGTGTTTAAACCCAGAAAAATTAATTTGAAAAATGGCACAGATCTT 2544  
821 SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu 840  
2545 TTCATGTCTATTCCAGCTGTTGATAAGTTCGATCGAATCAAGATATCAACATGCA 2604  
841 PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluLysSerAsnIleAla 860  
2605 CGAGTATCTTTGTTTATTCTCCACAGACTCCGCGCAGACACTAGTCTCTGATGAAC 2664  
861 ArgValSerLeuPheIleProGlnThrProProGluThrProSerProAspGluThr 880  
2665 TCTGCTCTCTGCTTAATATTCATATCAACAGCACCATTCTCTGGCATTCACATTTTAAA 2724  
881 SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys 900  
2725 ATTATGTGAAGTGGATAGGAGAACTGACGCTGCTCAATAGCC 2766  
901 IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914

RESULT 13  
US-10-369-214-133  
; Sequence 133: Application US/10369214  
; Publication No. US20030232037A1  
; GENERAL INFORMATION:  
; APPLICANT: Groot, Pieter C.  
; APPLICANT: Berghenhegouwen van, Bram J.  
; APPLICANT: Oosterhout van, Antoon J.M.  
; TITLE OF INVENTION: Genes involved in immune related responses observed  
; TITLE OF INVENTION: with asthma  
; FILE REFERENCE: P53837US00  
; CURRENT APPLICATION NUMBER: US/10/369,214  
; CURRENT FILING DATE: 2003-02-15  
; PRIOR APPLICATION NUMBER: EP 00202867.8  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: PCT/NL01/00610  
; PRIOR FILING DATE: 2001-08-16  
; NUMBER OF SEQ ID NOS: 139  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 133  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (1)-(914)  
; OTHER INFORMATION: /note="Human CLCA1"  
US-10-369-214-133  
Alignment Scores:  
Pred. No.: 0 Length: 914  
Score: 4751.00 Matches: 912  
Percent Similarity: 99.88% Conservative: 1  
Best Local Similarity: 99.78% Mismatches: 1  
Query Match: 93.52% Indels: 1  
DB: 15 Gaps: 0  
US-09-049-696-18 (1-2813) x US-10-369-214-133 (1-914)  
QY 25 ATGGGGCCATTAAAGATTCTGTTCATCTTGTGATCTTTCACCTTCTAGAGGGGCCCTG 84  
Db 1 MetGlyProPheLysSerValPheLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu 20  
QY 85 AGTAATCACTCATTCAGCTGACACATGCTGATGAAGGATTGCTGCTTCCATCCGAC 144  
Db 21 SerAsnSerLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu 40  
QY 145 CCCAATGTCCAGAGATCAAACTCATTCACCAAAATAAGGACATGTGTACCCAGGCA 204  
Db 41 ProAsnValProGluAspGluThrLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu 60  
QY 205 TCTCTGATCTGTTGAAGCTACAGAAAGCGATTTATTTCAAATAAGTTGCCATTG 264  
Db 61 SerLeuTyLeuPheGluAlaThrGlyLysArgPheTyLeuLeuLeuLeuLeuLeu 80  
QY 265 ATCTCTGAACATGGNAGCAAGCTGATGTGAGCCAAACTTCAGACCTTACACAA 324  
Db 81 IleProGluThrTrpLysThrLysAlaAspTyLeuValArgProLysLeuGluThrTyLys 100  
QY 325 AATGCTGATGTTCTGCTGCTGATCTCTCCAGGTAATGATGAACCTTACACTGAG 384  
Db 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyThrGlu 120  
QY 385 CAGATGGGCAACTGTGGAGAGAGGTGAAAGATCCACCTCACTCCTGATTTCATTGCA 444  
Db 121 GlnMetGlyAsnGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla 140  
QY 445 GGAATAAGTTAGCTGAATATGACCAAGGTAGGCAATTTGTCATGAGTGGGCTCAT 504  
Db 141 GlyLysLeuLeuAlaGluTyLeuProGlnGlyLysAlaPheValHisGluThrAlaHis 160  
QY 505 CTACGATGGGGAGTATTTCACGAGTACATAATATGATGAGAAATTTCTATTATCAATGGA 564

Db 161 LeuArgTrpGlyValPheAspGluTyLeuAsnAsnAspGluLysPheTyLeuSerAsnGly 180  
QY 565 AGAATACAAAGCAGTAAGATGTTTACAGCAGTATTACTGTGTACAAATGTAGTAAGAAGTGT 624  
Db 181 ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys 200  
QY 625 CAGGAGGAGCAGTGTTCACCAAAAGATGCACATTCAATAAAGTAACAGGACTCTATGAA 684  
Db 201 GlnGlyGlySerCysTyLeuLysArgCysThrPheAsnLysValThrGlyLeuTyGlu 220  
QY 685 AAAGGATGTGAGTTGTTCTCCAAATCCGCCAGAGCGGAGAGGCTTCTATATGTTTGA 744  
Db 221 LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla 240  
QY 745 CAACATGTTGATTCTATAGTTGAATCTGTGACAGCAAAACCAACCAAAAGAGCTCCA 804  
Db 241 GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro 260  
QY 805 AACAGCAAAATCAAAATCTCGAAGACACATCGGAGAGTGCATCGTGATTCTCTGAG 864  
Db 261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu 280  
QY 865 GACTTTAAGAAAACCATCTTATGACACACAGCCCAAAATCCACCTTCTCATGCTG 924  
Db 281 AspPheLysLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu 300  
QY 925 CAGATTGGACAAAGATTTGTGTTTACTCTGTGACAAATCTGGAAGCATGCGGACTG 984  
Db 301 GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320  
QY 985 AACCCCTCAATCGACTGAATCAACAGCGCCAGCTTTTCTCTGCTCAGACAGTTCAGCTG 1044  
Db 321 AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu 340  
QY 1045 GGGTCTCGGTTGGATGTTGACATTTGACAGTGTGCTGCCCATGTACAAAGTGAATCAT 1104  
Db 341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeu 360  
QY 1105 CAGATAAACAGTGGCAGTGACAGGACACACTCGCCCAAAAGATTACCTGCAGACTTCA 1164  
Db 361 GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaAsp 380  
QY 1165 GGAGGAGCTGCATCTGAGCGGGCTTCGATCGGCAATTTACTGTGATAGGAAGAAATAT 1224  
Db 381 GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTy 400  
QY 1225 CCACTGATGATCTGAAATTTGCTGTGCTGACGATGGGAAAGACAACTATAGTGGG 1284  
Db 401 ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly 420  
QY 1285 TGCTTTAAGCGGTCACAAAGTGTGCTCCATCATCCACAGTGCCTTTGGGGCCCTCT 1344  
Db 421 CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440  
QY 1345 GCAGCTCAAGAACTAGAGAGCTGTCCAAATAGCAGAGAGTTCACAGACATATGCTTCA 1404  
Db 441 AlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyAlaSer 460  
QY 1405 GATCAAGTTCAGAACAAATGGCCTCATTTGATGCTTTGGGGCCCTTTCATCAGGAATGA 1464  
Db 461 AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly 480  
QY 1465 GCTGTCTCTCCGCTCCATCCAGTTCAGAGTAAGGATTAACCTCCAGACAGCCAG 1524  
Db 481 AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln 500  
QY 1525 TGGATGAATGGCACAGTGCATGTCGACAGCAGCCGTTGGGAAAGACACTTTGTTTCTTATC 1584  
Db 501 TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeu 520  
QY 1585 ACCTGCAACAGCAGCTCCCAATCTCTCTGGGATCCAGTGGAGCAAGCAAGT 1644

Db 521 ThrTrpThrThrGlnProProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGly 540  
QY 1645 GGCTTTGTAGTGACAAAAACACCAAAATGCCCTACCTCCAAATCCAGCATTGCTAAG 1704  
Db 541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560  
QY 1705 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTCAAG 1764  
Db 561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrValThr 580  
QY 1765 TCCCGTGGCTCAATGCTACCTCCCTCCCAATTACAGTACTTCCAAAACGACCAAGGAC 1824  
Db 581 SerArgAlaSerAsnAlaThrLeuProProIleThrValThrSerLysThrAsnLysAsp 600  
QY 1825 ACCAGCAAAATCCCGACCTCTGGTAGTTTATGCCAAATATTCGCAAGGAGCTCCCCA 1884  
Db 601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
QY 1885 ATTCTCAGGGCAGTGTACAGCCCTGATGTAATCAGTGAATGGAACAGTACTCTTG 1944  
Db 621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640  
QY 1945 GAATCTACTGTATATGAGCAGGTGTCTGATCTACTAAGGATCACGGTGTCTACTCAAGG 2004  
Db 641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 660  
QY 2005 TATTTCAACATTATGACACGAATGGTAGATACAGTGTAAAGTGGCGGCTCTGGGAGGA 2064  
Db 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680  
QY 2065 GTTAACGCGCAGCAGGAGTGATACCCACAGAGTGAGACACTGTACATCTCTGGC 2124  
Db 681 ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700  
QY 2125 TGGATTGAGATGATGAATACAAATGGAATCCACCAAGCCTCAAAATTAATAGGATGAT 2184  
Db 701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720  
QY 2185 GTTCAACACAAAGCAAGTGTGTTTTCAGCAGAACCTCTCGGGAGGCTCATTTGTGGTTCT 2244  
Db 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlySerPheValAlaSer 740  
QY 2245 GATGTCCCAAAATGCTCCCACTACTGATCTCTCCACCTGGCCAAATACCCGACCTGAAG 2304  
Db 741 AspValProAsnAlaProIleProAspLeuPheProGlyGlnIleThrAspLeuAsn 760  
QY 2305 GCGGAATTCAGGGGGCAGTCTCATTAATCTGACTTGGACACTCTCTGGGATGATTAT 2364  
Db 761 AlaGluIleHisGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr 780  
QY 2365 GACCATGGAAACAGCTCACAAGTATATCATTCGAATAAGTACAGTATTCTTGATCTCAGA 2424  
Db 781 AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg 800  
QY 2425 GACAAATTCATGAATCTCTCAAGTGAATACTACTCTCATCCCAAGGAAGCCCAAC 2484  
Db 801 AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820  
QY 2485 TCTGAGGAAGTCTTTTGTGTTAAACAGAAACATTAATCTTTGAAATATGGCAGATCTT 2544  
Db 821 SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu 840  
QY 2545 TTCATTGTCTATTGAGCTGTGATAAGGTCTGATCTCAAAATCAGAAATATCCCAATTGCA 2604  
Db 841 PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla 860  
QY 2605 CGAGTATCTTTGTTTATCTCTCCACAGACTCCGCCAGACACCTAGTCTCTGATGAACG 2664  
Db 861 ArgValSerLeuPheIleProProGlnThrProProGluThrProSerProAspGluThr 880  
QY 2665 TCTGCTCTCTGCTTAATATATATATCAACAGACCATCTCTGGCATTCACATTTAA 2724  
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QY 2725 ATTATCTGCAAGTGGATAGCAGAACTGCACCTGTCAATAGCC 2766  
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## RESULT 14

US-10-106-698-6388  
; Sequence 6388, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO: 6388  
; LENGTH: 869  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: MISC\_FEATURE  
; LOCATION: (14)  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-10-106-698-6388

## Alignment Scores:

Prod. No.:	0	Length:	869
Score:	4476.00	Matches:	858
Percent Similarity:	99.65%	Conservative:	1
Best Local Similarity:	99.54%	Mismatches:	3
Query Match:	88.11%	Indels:	0
DB:	14	Gaps:	0

US-09-049-696-18 (1-2813) x US-10-106-698-6388 (1-869)

QY 181 ATAAAGGACATGCTGACCCAGGCATCTCTGTATCTCTTTGAAGCTACAGAAAGCATTT 240  
Db 8 IleArgHisGluValThr\*\*AlaSerLeuTyrLeuPheGluAlaThrGlyLysArgPhe 27  
QY 241 TATTTCAAAAATGTTGCCATTTTGATTCCTGAAACATGGAAGCAAAAGGCTGACTGTG 300  
Db 28 TyrPheLysAsnValAlaIleLeuIleProGluThrTrpLysThrLysAlaAspTyrVal 47  
QY 301 AGACCAAAACTTGAGACCTACAAATGCTGATTTCTGGTCTGCTGCTACTCTCTCCA 360  
Db 48 ArgProLysLeuGluThrTyrLysAsnAlaAspValLeuValAlaGluSerThrProPro 67  
QY 361 GGTAAATGATGAACCTTACACTGACAGATGGGCAACTGTGAGAGAGGGTGAAGATC 420  
Db 68 GlyAsnAspGluProTyrThrGluGlnMetGlyAsnCysGlyGluLysGlyGluArgIle 87  
QY 421 CACCTCCTCTGATTTTCATTTCAGGAAAAAAGTTAGCTGAATATATGACCAAGGTAGG 480  
Db 88 HisLeuThrProAspPheIleAlaGlyLysLeuAlaGluTyrGlyProGlnGlyArg 107  
QY 481 GCATTTGTCATGAGTGGGCTCATCTACCATGGGAGTATTTGACCAAGTACATATGAT 540  
Db 108 AlaPheValHisGluTrpAlaHisLeuArgTrpGlyValPheAspGluTyrAsnAsnAsp 127  
QY 541 GAGAAATCTACTTATCCCAATGGAATACAAAGCAGTAAAGTGTTCAGCAGGTATTACT 600  
Db 128 GluLysPheTyrLeuSerAsnGlyArgIleGlnAlaValArgCysSerAlaGlyIleThr 147  
QY 601 GGTACAAATGTAGTAAAGAGTGTGAGGAGGCAGCTGTTACACCAAAAGATGCACATTC 660

Db	148	GlyThrAsnValValLysLysCysGlnGlyGlySerCysTyrThrLysArgCysThrPhe	167
Qy	661	AAATAAGTAACAGGACTCTATGAAAAGAGATGTGAGTTGTCTCCAATCCCGCCAGACG	720
Db	168	AsnLysValThrGlyLeuTyrGlnLysGlyCysGluPheValLeuGlnSerArgGlnThr	187
Qy	721	GAGAAAGGCTTCATATGTTTCACAAACATGTTGATTTCTATAGTTGAAATTCGTACAGAA	780
Db	198	GluLysAlaSerIleMetPheAlaGlnHisValAspSerIleValGluPheCysThrGlu	207
Qy	781	CAAAACCAACAAAGAGCTCCAAACAGCAAAATCAAAATGCAATCTCCGAAGCAC	840
Db	208	GlnAsnHisAsnLysGluAlaProAsnLysGlnAsnGlnLysCysAsnLeuArgSerThr	227
Qy	841	TGGGAAGTCATCCGTCATTCTCAGAGCTTTAAGAAAACCACTTATGACACACAGCA	900
Db	228	TrpGluValIleArgAspSerGluAspPheLysThrThrProMetThrThrGlnPro	247
Qy	901	CCAAATCCACCTTCTCATTTGCTGCAGATTGGACAAAGAAATGTGTGTTTAGTCTCTGAC	960
Db	248	ProAsnProThrPheSerLeuLeuGlnIleGlyGlnArgIleValCysLeuValLeuAsp	267
Qy	961	AAATCTGGAGCATGGCGACTGGTAACCGCCTCAATCGACTGAATCAAGAGCGCGAGCTT	1020
Db	268	LysSerGlySerMetAlaThrGlyAsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeu	287
Qy	1021	TTCTCTGCTGCACAGTTGAGTGGGTCTGGGTGGATGGTGCATTTGACAGTGTCT	1080
Db	288	PheLeuLeuGlnThrValGlnLeuGlySerTrpValGlyMetValThrPheAspSerAla	307
Qy	1081	GCCCATGTACAAAGTGAACCTACAGATAAACAGTGGCAGTGACAGGAGACACACTCGCC	1140
Db	308	AlaHisValGlnSerGluLeuIleGlnIleAsnSerGlySerAspArgAspThrLeuAla	327
Qy	1141	AAAAGATTACCTGCAGCAGCTTCAGAGGGAGCGTCCATCTGACGGGGCTTCGATCGGA	1200
Db	328	LysArgLeuProAlaAlaAlaSerGlyGlyThrSerIleCysSerGlyLeuArgSerAla	347
Qy	1201	TTTACTGTGATTAGGAAGAAATATCCAAGTATGATGATCTGAAATGTGCTGTGACGGAT	1260
Db	348	PheThrValIleArgLysLysTyrProThrAspGlySerGluIleValLeuLeuThrAsp	367
Qy	1261	GGGGAAGCAACACATATAAGTGGTCTTTACAGAGGTCAAAACAAAGTGGTGCCATCATC	1320
Db	368	GlyGluAspAsnThrIleSerGlyCysPheAsnGluValLysGlnSerGlyAlaIleIle	387
Qy	1321	CACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGAGCTGCCAAAATGACA	1380
Db	388	HisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGluLeuSerLysMetThr	407
Qy	1381	GGAGGTTTACACATATGCTTCAGATCAAGTTCAGAACTGGCCTCATTTGATGCTTTT	1440
Db	408	GlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsnGlyLeuIleAspAlaPhe	427
Qy	1441	GGGGCCCTTTTCATCAGGAATAGAGTGTCCTCAGCGCTCCATCCAGCTTCAGAGTAG	1500
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Qy	1561	GGAAAGGACACTTGTCTTATACCTCGACACCGCAGCTCCCAATCTCTCTCGG	1620
Db	468	GlyLysAspThrLeuPheLeuIleThrTrpThrThrGlnProProGlnIleLeuLeuTrp	487
Qy	1621	GATCCAGTGGACAGAACGAGTGCTGTGTAGTGGACAAAAACACCAAAATGGCCTAC	1680
Db	488	AspProSerGlyGlnLysGlnGlyPheValValAspLysAsnThrLysMetAlaTyr	507
Qy	1681	CTCCAAATCCAGGCATTCCTAAGGTGGCAGCTTGGAAATACAGTCTGCAAGCAAGCTCA	1740
Db	508	LeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyrSerLeuGlnAlaSerSer	527
Qy	1741	CAAACCTTGACCTGACTGTACGTCCTCGTGGTCCAATGTCTACCTGCTCCCAATTACA	1800
Db	528	GlnThrLeuThrLeuThrValThrSerArgAlaSerAsnAlaThrLeuProIleThr	547
Qy	1801	GTGACTTCCAAAACGAAACAGACACAGCAAAATCCCGAGCCCTCTGGTAGTTATGCA	1860
Db	548	ValThrSerLysThrAsnLysAspThrSerLysPheProSerProLeuValValTyrAla	567
Qy	1861	AATATTCGCCAAGAGAGCTCCCAATCTCAGGGCCAGTGTACACAGCCCTGATTGAATCA	1920
Db	568	AsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerValThrAlaLeuIleGluSer	587
Qy	1921	GTGAATGAAAAACAGATTACCTTGGAACTACTGGATAATGGACAGGTGCTGATCTACT	1980
Db	588	ValAsnGlyLysThrValThrLeuGluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThr	607
Qy	1981	AAGGATGACGGTGTCTACTCAAGGTATTTCAACTTATGACACGAATGGTAGATACAGT	2040
Db	608	LysAspAspGlyValTyrSerArgTyrPheThrThrTyrAspThrAsnGlyArgTyrSer	627
Qy	2041	GTAAAGTGGGGCTCTCGGAGGAGTTAACCGACGACGAGAGTGTATACCCAGCAG	2100
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Qy	2101	AGTGAGCAGCTGTACATACCTGGCTGGATTGAGATGATGAAATACAATGGAATCCACCA	2160
Db	648	SerGlyAlaLeuTyrIleProGlyTrpIleGluAsnAspGluIleGlnTrpAsnProPro	667
Qy	2161	AGACTGAAATTAATAAGATGATTTCAACAAGCAAGTGTGTTTTCAGCAGACATCC	2220
Db	668	ArgProGluIleAsnLysAspValGlnHisLysGlnValCysPheSerArgThrSer	687
Qy	2221	TCGGAGAGCTCATTTGTGCTCTGATGTCCTCAAAATGCTCCCATACCTGATCTCTCCCA	2280
Db	688	SerGlyGlySerPheValAlaSerAspValProAsnAlaProIleProAspLeuPhePro	707
Qy	2281	CCTGCGCAAAATCACCGACTGAAAGCGGAAATTCACGGGGCAGTCTCATTAATCTGACT	2340
Db	708	ProGlyGlnIleThrAspLeuLysAlaGluIleHisGlySerLeuIleAsnLeuThr	727
Qy	2341	TGGACAGCTCTCTGGGGATGATTATGACCATGGAACAGCTCACAAGTATATATTCGAATA	2400
Db	728	TrpThrAlaProGlyAspTyrAspHisGlyThrAlaHisLysTyrIleIleArgIle	747
Qy	2401	AGTACAGTATTTCTTGATCTCAGACACAAAGTCAATGAATCTCTTCAAGTGAATACTCT	2460
Db	748	SerThrSerIleLeuAspLeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThr	767
Qy	2461	GCTCTCATCCCAAGCAAGCCAACTCTGAGGAAGTCTTTTCTTTTAAACCAAGAAACATT	2520
Db	768	AlaLeuIleProLysGluAlaAsnSerGluGluValPheLeuPheLysProGluAsnIle	787
Qy	2521	ACTTTTGAATAATGGCACAGATCTTTTTCATTTGCTATTCAGGCTGTGTGATAAGTGCATCTG	2580
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Qy	2581	AAATCAGAAATATCAACATTCGACAGTATCTTTTGTATTATTCTTCCACAGACTCCGCCA	2640
Db	808	LysSerGluIleSerAsnIleAlaArgValSerLeuPheIleProProGlnThrProPro	827
Qy	2641	GAGACACCTAGTCTGTGTAACAGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	2700
Db	828	GluThrProSerProAspGluThrSerAlaProCysProAsnIleHisIleAsnSerThr	847
Qy	2701	ATTCCTGGCATTACATTTTAAAAATATGTGGAATGGATAGGAGAACTGCAGCTGTCA	2760
Db	848	IleProGlyIleHisIleLeuLysIleMetTrpLysTrpIleGlyGluLeuGlnLeuSer	867
Qy	2761	ATAGCC 2766	
Db	868	IleAla 869	





Qy	1462	GGAGCTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGATTAAACCTCCAGAACAGC	1521	Qy	2539	GATCTTTTCATTGCTATTTCAGCGCTGTTGATAGGTGCGATCTGAAATCAGAAATATCCAAC	2598
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Qy	1522	CAGTGGATGAATGGCAGCAGTGATCGTGGGACAGCACCGCTGGGAAAGACACTTTGTTCTT	1581	Qy	2599	ATTGCACGAGTATCTTTGTTTATTCCTCCACAGACTCCGCCAGAGACACTAGCTCCTGAT	2658
Db	501	GlnTrpMetAsnGlySerValIleValAspSerSerValGlyLysAspThrLeuPheLeu	520	Db	859	IleAlaArgValSerValPheIleProAlaGlnGluPro-----ProIleProGlu	875
Qy	1582	ATCACCCTGGACAGCGAGCTCCCAATCCTTCTCGGATCCCAGTGCAGAGACAA	1641	Qy	2659	GAACCGCTCGCTCCTTGCTCTTAATATTTCATATCAACAGACCACTTCTGTGCATTCACAT	2718
Db	521	IleThrTrpThrHisProProThrIlePheIleTrpAspProSerGlyValGluGln	540	Db	876	AspSerThrProProCysProAspIleSerIleAsnSerThrIleProGlyIleHisVal	895
Qy	1642	GGTGGCTTTGTAGTGGACAAAACACCAAAATGGCCCTACCTCCAAATCCCGAGGCATTGCT	1701	Qy	2719	TTAAAAATTATGGGAAGTGGATAGGAGAACTGCAGCTGTCAATA	2763
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Search completed: April 21, 2004, 16:56:04  
Job time : 240.23 secs



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OM nucleic - protein search, using frame\_plus\_n2p model

Run on: April 21, 2004, 16:13:29 ; Search time 25.9523 Seconds  
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Title: US-09-049-696-18

Perfect score: 5080

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Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 778828

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Database : Issued Patents AA:\*  
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5: /cgn2.6/prodata/2/iaa/PTUS COMB pep:\*  
6: /cgn2.6/prodata/2/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	4754	93.6	914	4	US-09-623-624-6
2	4753	93.6	914	4	US-09-193-562D-28
3	1656.5	72.0	913	4	US-09-623-624-2
4	2866.5	56.4	917	4	US-09-049-698-41
5	2462.5	48.5	903	4	US-09-193-562D-46
6	2411.5	47.5	903	4	US-09-623-624-18
7	2328	45.8	905	4	US-09-193-562D-2
8	2324.5	45.8	902	4	US-09-193-562D-34
9	2258.5	44.5	1000	4	US-09-193-562D-30
10	2125	41.8	795	4	US-09-193-562D-11
11	2125	41.8	821	4	US-09-193-562D-12
12	1996	39.3	943	4	US-09-643-597-161
					Sequence 6, Appli
					Sequence 28, Appl
					Sequence 2, Appli
					Sequence 41, Appl
					Sequence 46, Appl
					Sequence 18, Appl
					Sequence 2, Appli
					Sequence 34, Appl
					Sequence 30, Appl
					Sequence 11, Appl
					Sequence 12, Appl
					Sequence 161, App

ALIGNMENTS

RESULT 1

US-09-623-624-6  
; Sequence 6, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01

Sequence 161, App  
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Sequence 32, Appl  
Sequence 357, App  
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Sequence 170, App  
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QY 1945 GAACACTGGAATTAATGGAGCAGGTGCTGATGCTACTAGGATGACGGTGTCTACTCAAGG 2004
Db 641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 660
QY 2005 TATTTTCAACACTTATGACACGAATGCTAGATACAGTGTAAAGTGGGCTCTGGGAGGA 2064
Db 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680
QY 2065 GTTAAACGACGACGAGAGTGTATACCCAGCAGAGTGGAGCAGTGTACATACCTGGC 2124
Db 681 ValAsnAlaAlaArgArgValIleProGlnSerGlyAlaLeuTyrIleProGly 700
QY 2125 TGGATTGAGATGATGAATACAAATGGAATCCACCAAGACCTGAAATTAATTAAGATGAT 2184
Db 701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720
QY 2185 GTTCAACCAACAAAGTGTGTTTACGACAGAACATCTCGGAGGCTCATTTGTGGCTTCT 2244
Db 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740
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Db 901 IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914

RESULT 2
US-09-193-562D-28
; Sequence 28, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 28
; LENGTH: 914
; TYPE: PRT
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; ORGANISM: Homo sapiens
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Score: 4753.00 Matches: 912
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QY 145 CCCAATGTGCCAGAGATGAAACACTTCATTCACAAATAAAGGACATGGTGACCCAGGCA 204
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QY 205 TCTCTGTATCTGTTTGAAGCTACAGGAAAGCGATTTTATTTCCAAAAATGTTCCCATTTTG 264
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QY 505 CTACCATCGGAGTATTTGACGAGTACAATATGATGAGAAATTTCTACTTATCCCAATGCA 564
Db 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180
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Db 261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu 280
QY 865 GACTTTAAGAAAACCCACTCTCTATGACACAGCCACCAAAATCCCACTTCTCATTCTG 924
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Qy	1645	GGCTTTGTAGTGGCAAAAAACCAAAATGGCTTCTACCTCCAAATCCCAGGCAATTCGTAAG	1704
Db	541	GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys	560
Qy	1705	GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCAAAACCTTGCACCTGACTGTCAAG	1764
Db	561	ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr	580
Qy	1765	TCCGTGGCTCCAATGCTACCTCGCTCCATTTACGTGACTTCCAAACGACAAAGGAC	1824
Db	581	SerArgAlaSerAsnAlaThrLeuProProfileThrValThrSerLysThrAsnLysAsp	600
Qy	1825	ACCAGCAAAATTCGCCAGCCCTCTGTTAGTTTATGCAATATTCGCCAAGGAGCCTCCCCA	1884
Db	601	ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro	620
Qy	1885	ATTCTCAGGGCCAGTGTCACAGCCCTGATTGAATCAGTGAATGAAAAACAGTTTACCTTG	1944
Db	621	IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu	640
Qy	1945	GAACACTACTGGTAATGGCAGGCTGCTACTACTAAGNATGACGGTGCTACTCAAGG	2004
Db	641	GlnLeuLeuAspAsnGlyValGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg	660
Qy	2005	TATTTTCAAACTTATGACCAAGATGGTAGATACAGTGTAAAGTGGCGGCTCTCGGAGGA	2064

### RESULT 3

US-09-623-624-2

US-03-023-024-2  
; Sequence 2, Application US/09623624

Patent No. 6576434

FACEID NO. 0370434  
; GENERAL INFORMATION:

APPLICANT: Magainin Pharmaceuticals, Inc.

**TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating**

**TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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FILE REFERENCE: 36870-5073-WO

; CURRENT APPLICATION NUMBER: US/09/623,624

; CURRENT FILING DATE: 2000-09-06

; PRIOR APPLICATION NUMBER: PCT/US99/04703

; PRIOR FILING DATE: 1999-03-03

; PRIOR APPLICATION NUMBER: US 08/697,360  
 ; PRIOR APPLICATION NUMBER: US 08/697,360  
 ; PRIOR APPLICATION NUMBER: US 08/697,360

; PRIOR FILING DATE: 1996-08-23  
 ; PRIOR APPLICATION NUMBER: US 08/507 418

; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23

; PRIOR FILING DATE: 1996-08-23  
 ; PRIOR APPLICATION NUMBER: US 08/697,440

; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23

;; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471

; PRIOR APPLICATION NUMBER: US 08/697,471  
 : PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,471  
 ; PRIOR FILING DATE: 1996-08-23  
 ; PRIOR APPLICATION NUMBER: US 08/697,472  
 ; PRIOR FILING DATE: 1996-08-23  
 ; PRIOR APPLICATION NUMBER: US 08/697,473  
 ; PRIOR FILING DATE: 1996-08-23  
 ; PRIOR APPLICATION NUMBER: US 08/702,105  
 ; PRIOR FILING DATE: 1996-08-23  
 ; PRIOR APPLICATION NUMBER: US 08/702,110  
 ; PRIOR FILING DATE: 1996-08-23  
 ; PRIOR APPLICATION NUMBER: US 08/702,168  
 ; PRIOR FILING DATE: 1996-08-23  
 ; PRIOR APPLICATION NUMBER: US 08/980,872  
 ; PRIOR FILING DATE: 1997-12-01  
 ; NUMBER OF SEQ ID NOS: 18  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 2  
 ; LENGTH: 913  
 ; TYPE: PRT  
 ; ORGANISM: Mus musculus  
 US-09-623-624-2

## Alignment Scores:

Pred. No.: 1,36e-309 Length: 913  
 Score: 3656.50 Matches: 694  
 Percent Similarity: 86.99% Conservative: 102  
 Best Local Similarity: 75.85% Mismatches: 112  
 Query Match: 71.98% Indels: 7  
 DB: 4 Gaps: 4

US-09-049-696-18 (1-2813) x US-09-623-624-2 (1-913)

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 QY 85 AGTAATTCATCTCAGCTGAAACAAATGCTATGAAGGCAATGCTTCCAAATCGAC 144  
 DB 21 SerGluSerLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu 40  
 QY 145 CCCAATGTCAGAGATGAACACTCATTCAACAAATGAAGACATGCTGACCCAGCA 204  
 DB 41 HisAspValProGluAspGluAlaLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu 60  
 QY 205 TCTCTGTATCTGTTGAAGCTACAGAAAGCATTTTATTTCAAAAATCTGCTCCATTG 264  
 DB 61 SerProTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaLeu 80  
 QY 265 ATCTCGAAACATGAAGACAAAGGCTGACTATGTGAGACCAAACTTGAGACCTACAA 324  
 DB 81 IleProGluSerTrpLysAlaLysProGluTyrThrArgProLysLeuGluThrPheLys 100  
 QY 325 AATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTGAG 384  
 DB 101 AsnAlaAspValLeuValSerThrThrSerProLeuGlyAsnAspGluProTyrThrGlu 120  
 QY 395 CAGATGGCAACTGGGAGAGAGGTGAAGAGTCCACTCCTCCTGATTTTCATTGCA 444  
 DB 121 HisIleGlyAlaCysGlyGluLysGlyIleArgIleHisLeuThrProAspPheLeuAla 140  
 QY 445 GGAATAAGTCTAGCTGAATATGACACACAAAGGTAGGCAATTTGTCATCAGTGGGCTCAT 504  
 DB 141 GlyLysLysLeuThrGlnTyrGlyProGlnAspArgThrPheValHisGluTrpAlaHis 160  
 QY 505 CTACGATGGGAGTATTTGACGAGTACATAATGATGAGAAATTTCTATTATCCAAATGA 564  
 DB 161 PheArgTrpGlyValPheAsnGluTyrAsnAsnAspGluLysPheTyrLeuSerLysGly 180  
 QY 565 AGAATACAGCAGTAAGATGTTTCAGCAGGATATTACTGGTACAAATCTAGTAAGAAGTGT 624  
 DB 181 LysProGlnAlaValArgCysSerAlaAlaIleThrGlyLysAsnGlnValArgCys 200  
 QY 625 CAGGAGGAGGCTGTTTACACCAA --- AGATGCACATTCAATAAAGTAACAGGACTCTAT 681

DB 201 GlnGlyGlySerCysIleThrAsnGlyLysCysValIleAspArgValThrGlyLeuTyr 220  
 QY 682 GAAAGAGGATGTAGTTTGTCTTCCAAATCCCGCCACGAGGAGGAGGCTTCTATAATGTTT 741  
 DB 221 LysAspAsnCysValPheValProAspProHisGlnAsnGluLysAlaSerIleMetPhe 240  
 QY 742 GCACAACTGTTGATCTATAGTTGAATCTGTACAGAAACAAACACAAACAGAGCT 801  
 DB 241 AsnGlnAsnIleAsnSerValValGluPheCysThrGluLysAsnHisAsnGlnGluAla 260  
 QY 802 CCAACCAAGCAAAATCAAAATGCAATCTCGAAGCAGATCGGAAGTATCGTGTATCT 861  
 DB 261 ProAsnAspGlnAsnGlnArgCysAsnLeuArgSerThrTrpGluValIleGlnGluSer 280  
 QY 862 GAGGACTTTAAGAAAAACCACTCTATGACAAACACAGCCACCAAAATCCCACTTCTCAT 921  
 DB 281 GluAspPheLysGlnThrProMetThrAlaGlnProProAlaProThrPheSerLeu 300  
 QY 922 CTGCAGATTGGACAAAGAAATGTGTGTGTAGTCCTTGACAAATCTGGAAGCATGGGACT 981  
 DB 301 LeuGlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetLeuAsn 320  
 QY 982 GGTAAACCGCTCAATCGACTGAATCAACAGCCGAGCTTTTCTCTGTCGAGACAGTTGAG 1041  
 DB 321 AspAspArgLeuAsnArgMetAsnGlnAlaSerArgLeuPheLeuGlnThrValGlu 340  
 QY 1042 CTGGGGTCTCTGGTGGGATGCTGACATTGTGACAGTGTGCCCATGTACAAAGTGAAC 1101  
 DB 341 GlnGlySerTrpValGlyMetValThrPheAspSerAlaIleTyrValGlnSerGluLeu 360  
 QY 1102 ATACAGATAAACAGTGGCAGTGACAGGACACACTCGCCCAAAAGATTACCTCCAGCAGCT 1161  
 DB 361 LysGlnLeuAsnSerGlyAlaAspArgAspLeuLeuLeuLeuLeuLeuLeuLeuLeu 380  
 QY 1162 TCAGAGGAGCATCTCATCTGACGCGGCTTGATCGGCATTTTACTGTGATTTAGGAAGAA 1221  
 DB 381 AlaGlyGlyThrSerIleCysSerGlyLeuArgThrAlaPheThrValIleLysLysLys 400  
 QY 1222 TATCCAACTGATGATCTGAATCTGCTGCTGCGGATGGGGAAGACAACTATAAGT 1281  
 DB 401 TyrProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAsnThrIleSer 420  
 QY 1282 GGGTCTTTTAAAGAGTCAAAACAAAGTGGTGCATCATCCACACAGTCTGTTGGGCCC 1341  
 DB 421 SerCysPheAspLeuValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyPro 440  
 QY 1342 TCTGAGCTCAAGACTAGAGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCT 1401  
 DB 441 AlaAlaAlaLysGluLeuGluGlnLeuSerLysMetThrGlyGlyLeuGlnThrTyrSer 460  
 QY 1402 TCAGATCAAGTTCAGACAAATGCGCTCATTTGATGCTTTTGGGCGCTTTCATCAGGAAT 1461  
 DB 461 SerAspGlnValGlnAsnAsnGlyLeuValAspAlaPheAlaLeuSerSerGlyAsn 480  
 QY 1462 GGAGTGTCTCTCAGCGCTCCCATCCAGCTTGAGAGTGAAGGATTAACTCCCTCAGAACAGC 1521  
 DB 481 AlaAlaIleAlaGlnHisSerIleGlnLeuGluSerArgGlyValAsnLeuGlnAsnAsn 500  
 QY 1522 CAGTGGATGAATGGCAGCATGATCTGTGGACACACCGTGGGAAAGACACTTTGTTCTT 1581  
 DB 501 GlnTrpMetAsnGlySerValIleValAspSerSerValGlyLysAspThrLeuPheLeu 520  
 QY 1582 ATCACTGGACACGAGCTCCCAATCTCTCTGGAATCCCACTGAGGAGCAAGCA 1641  
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 QY 1642 GGTGCTTTGTAGTGCACAAAACCAAAATGGCTACTCTCAATCCAGGCTTGTCT 1701  
 DB 541 AsnGlyPheIleLeuAspThrThrThrLysValAlaTyrLeuGlnValProGlyThrAla 560  
 QY 1702 AAGGTTGGCAGCTTGGAAATACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGCTGTC 1761



205 TCCTCTATCTGTTTGAAGCTACAGAAAGCGATTTTATTTCAAAATGTTCCCATTTG 264  
Db SerThrTyrLeuPheGluAlaThrGluLysArgPhePheLysAsnValSerIleLeu 79  
265 ATTCTGAAACATGGAAGCAAGGCTGACTATGTGAGACCAAACTTGAGACCTACAAA 324  
Db IleProGluAsnTrpLysGluAsnProGlnTyrLysArgProLysHisGluAsnHisLys 99  
325 AATGCTGATGTTCTGCTGCTGAGTCTACTCTCCAGAGTAATGATGAACCCCTACACTGAG 384  
Db HisAlaAspValIleValAlaProProThrLeuProGlyArgAspGluProTyrThrLys 119  
385 CAGATGGGCAACTGTGAGAGAGGCTGAAGGATCCACTCACTCTGATTTCAATGCA 444  
Db GlnPheThrGluCysGlyGluLysGlyGluTyrIleHisPheThrProAspLeuLeu 139  
445 GGAAGAAAGTTAGCTGAATATGACACCAAGGTAGGGCATTTGCTCCATGAGTGGGCTCAT 504  
Db GluLysLysGlnAsnGluTyrGlyProProGlyLysLeuPheValHisGluTrpAlaHis 159  
505 CTACGATGGGAGTATTTGACGAGTACAATAATGATGAGAAATTTCTACTTATCCAAATGGA 564  
Db LeuArgTrpGlyValPheAspGluTyrAsnGluAspGlnProPheTyrArgAlaLysSer 179  
565 ---AGAATCAACAGCAGTAAGTTTCAGCAGGTATTACTGGTACAAATGTAGTAAGAAG 621  
Db LysLysIleGluAlaThrArgCysSerAlaGlyIleSerGlyArgAsnArgValTyrLys 199  
622 TGTACGGAGGCGCTGTTACACCAAAAGATGCACATTCATTAAGTAACAGAGCTCTAT 681  
Db CysGlnGlySerCysLeuSerArgAlaCysArgIleAspSerThrThrLysLeuTyr 219  
682 GAAAAAGGATGTCAGTTGTTCTCCATCCCGCCAGCGAGAGGCTTCTATAATGTTT 741  
Db GlyLysAspCysGlnPhePheProAspLysValGlnThrGluLysAlaSerIleMetPhe 239  
742 GCACAACTGTGATTCTATAGTTGAATTTCTGTACAGAAACAAACACCAAGAAAGCT 801  
Db MetGlnSerIleAspSerValValGluPheCysAsnGluLysThrHisAsnGlnGluAla 259  
802 CCAACACGCAAAATCAAAATGCAATCTCCGAGCAGACATGGGAAGTATCGTGATCT 861  
Db ProSerLeuGlnAsnIleLysCysAsnPheArgSerThrTrpGluValIleSerAsnSer 279  
862 GAGGACTTTAAGAAACCACTCTATGACAAACACACAGCCCAATCCCACTTCTCATG 921  
Db GluAspPheLysAsnThrIleProMetValThrProProProProValPheSerLeu 299  
922 CTGCAATTCGACAAAGAAATTTGTGTTTAGTCTCTTGACAAATCTGGAAGCATGGCGACT 981  
Db LeuLysIleSerGlnArgIleValCysLeuValLeuAspLysSerGlySerMetGlyGly 319  
982 GGTAAACGGCTCAATCGACTGAATCAAGCGGCGGCTTTCTGCTGCGAGCAGTTGAG 1041  
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1042 CTGGGCTCTGGCTGGATGGTACATTTGACAGTGCTGCCCATCTACAAAGTGAATC 1101  
Db AsnGlySerTrpValGlyMetValHisPheAspSerThrAlaThrIleValAsnLysLeu 359  
1102 ATACAGATAACAGTGGCAGTGAAGGACACACTCGCCCAAAAGATTACTCGCAGCAGCT 1161  
Db IleGlnIleLysSerAspGluArgAsnThrLeuMetAlaGlyLeuProThrTyrPro 379  
1162 TCAGGAGGAGCTCCATCTGACGGGCTTCGATCGGCTATTTACTGTGATTAGAAGAAA 1221  
Db LeuGlyGlyThrSerIleCysSerGlyIleLysTyrAlaPheGlnValIleGlyGluLeu 399  
1222 TAT---CCAATCATGATCGAATGCTGCTGACCGATGGGAAGACACACTATA 1278  
Db HisSerGlnLeuAspGlySerGluValLeuLeuLeuThrAspGlyGluAspAsnThrAla 419  
1279 AGTGGGTGCTTTAAGAGGTCAAAAGTGGTGGCCATCATCCACAGCTCGCTTTGGGG 1338

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1339 CCCTCTGAGCTCAAGACTAGCAGGAGCTGCCAAAATCACAGGAGTTTACAGACATAT 1398  
Db ArgAlaAlaAspGluAlaValIleGluMetSerLysIleThrGlyCysSerHisPheTyr 459  
1399 GCTTCAGATCAAGTTTCAGAACCAATGGCTCATTTGATGCTTTTGGGGCCCTTCATCAGA 1458  
Db ValSerAspGluAlaGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuThrSerGly 479  
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1519 AGCAGTGTGATCAATGGCACAGTGTGCGACAGCACCGCTGGAAAGACACTTTGTTT 1578  
Db AsnAlaTrpMetAsnAspThrValIleIleAspSerThrValGlyLysAspThrPhePhe 519  
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1873 GGAGCTCCCAATCTCAGGCCAGTGTGCAGCCCTGATTAATGATCAAGTGAAGAAA 1932  
Db GlyTyrValProValLeuGlyAlaAsnValThrAlaPheIleGluSerGlnAsnGlyHis 639  
1933 ACAGTTACCTTCGAACCTACTGATTAATGAGCAGAGTGTGCTGATCTACTAAGGATGACGT 1992  
Db ThrGluValLeuGluLeuLeuAspAsnGlyAlaGlyAlaAspSerPheLysAsnAspGly 659  
1993 GTCTACTCAAGTATTTCAAACTTATGACGAATGCTAGATACAGTGTAAAAGTCGG 2052  
Db ValTyrSerArgTyrPheThrAlaTyrThrGluAsnGlyArgTyrSerLeuLysValArg 679  
2053 GCTCTGGGAGGAGTTAAACGACGCCAGCGAGTGTATCCCGCAGCAGTGGAGCACTG 2112  
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2113 TACATACCTGGCTGATTAATGAGAAATGATGAATCAATGAATCCCAAGACCTGAAAT 2172  
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Db Asp---GluAspThrGlnThrThrLeuGluAspPheSerArgThrAlaSerGlyAla 738  
2233 TTTGTGGCTTCGTGATGTCCTCAATGCTCCATACCTGATCTCTTCCACTGGCCAAATC 2292  
Db PheValValSerGlnValProSerLeuProLeuProAspGlnTyrProProSerGlnIle 758  
2293 ACCGACTCAAGCGCGAAATTCACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCCT 2352  
Db ThrAspLeuAspAlaThrValHisGluAspLysIleIle---LeuThrTrpThrAlaPro 777  
2353 GGGGATGATTATGACCATGGAAACAGCTCAAGTATATCATTCGAATAAGTACAAGTATT 2412



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Db      778 GlyAspAsnPhaSpValGlyLysValGlnArgTyrIleIleArgIleSerAlaSerIle 797
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Db      798 LeuAspLeuArgSpSerPheAspAlaLeuGlnValAsnThrThrAspLeuSerPro 817
QY      2473 AAGGAGCCCAACTCTGAGGAAGTCTTTTGTGTTTAAACCAAGAAACATTACTTTTGAAT 2532
Db      818 LysGluAlaAsnSerLysGluSerPheAlaPheLysProGluAsnIleSerGluGluAsn 837
QY      2533 GGCACAGATCTTTTCAATGCTATTAGCGCTGTGATAGAGTCAATCTGAATTCAGAAATCA 2592
Db      838 AlaThrIlePheIleAlaIleLysSerIleAspLysSerAsnLeuThrSerLysVal 857
QY      2593 TCCACATGTCAGGATCTTTGTTTATTCTCTCACAGACTCCGCCAGACACCTAGT 2652
Db      858 SerAsnIleAlaGlnValThrLeuPheIle---ProGlnAlaAsnProAspAspIleAsp 876
QY      2653 CTGTATGAACGCTGCTCTCTGCTCAATATATTCATATCAACAGCACCATTCTGCGCAT 2712
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Db      894 AsnIleSerThrLeuValLeuSerValIleGlySerVal 906

RESULT 5
US-09-193-562D-46
; Sequence 46, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 46
; LENGTH: 903
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Calcium sensitive chloride channel from bovine tracheal
; epithelium (Cunningham et al., 1995, J. Biol. Chem., 270:31016-
; OTHER INFORMATION: 31026)
US-09-193-562D-46

Alignment Scores:
Pred. No.:      1,166-205      Length:      903
Score:          2462.50      Matches:     494
Percent Similarity: 71.04%      Conservative: 139
Best Local Similarity: 55.44%      Mismatches: 233
Query Match:     48.47%      Indels:      25
DB:              4          Gaps:         13

US-09-049-696-18 (1-2813) x US-09-193-562D-46 (1-903)
QY      25 ATGGGGCCATTAAAGAGTCTGTGTTTCATCTTGTATTCTTCACTTCTAGAGGGCCCTG 84
Db      1 MetValProArgLeuThrValIleLeuPheLeuThrLeuHisLeuLeuProGly---Met 19
QY      85 AGTAATTCATCTCAGCTGAACACAAATGCTATGAGGCAATGCTGTTGCAATCGAC 144
Db      20 LysSerSerMetValAsnLeuIleAsnAsnGlyTyrAspGlyIleValIleAlaIleAsn 39
QY      145 CCCAATGTCACAGAGATGAACACTCATTCAACAAATGAAGCATGTGTGCCAGGCA 204
Db      40 ProSerValProGluAspGluLysLeuIleGlnAsnIleLysGluMetValThrGluAla 59
QY      205 TCTCTGTATCTGTTTGAAGCTACAGAAAGCGATTTTATTTCACAAATATGTTGCCATTTTG 264

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Db      60 SerThrTyrLeuPheHisAlaThrLysArgArgValTyrPheArgAsnValSerIleLeu 79
QY      265 ATTCTTGAAACATGAGACAAAGGCTGACTATGTGAGACCAAACTTGAGACCTTACAAA 324
Db      80 IleProMetThrTrpLysSerLysSerGluTyrLeuMetProLysGlnGluSerTyrAsp 99
QY      325 AATGCTGATGTTCTGTTGCTGAGTCTACTCTCCTCAGGTAATGATGAAACCCCTACACTGAG 384
Db      100 GlnAlaGluValIleValAlaAsnProTyrLeuLysHisGlyAspAspProTyrThrLeu 119
QY      385 CAGATGGCAACTGTGGAGAGAGGTTGAAAGGATCCACCTCCTGCTGATTTCAATGCA 444
Db      120 GlnTyrGlyArgCysGlyGluLysGlyGlnTyrIleHisPheThrProAsnPheLeuLeu 139
QY      445 GGAATAAAGTTAGCTGAATATGGACCACAGGTAGGCAATTTGTCCATGAGTGGGCTCAT 504
Db      140 ThrAsnAsnLeuProIleTyrGlySerGlyArgAlaPheValHisGluTrpAlaHis 159
QY      505 CTACGATGGGAGTATTTGACGAGTACAAATATGATGAGAAATTTCTACTTATCC---AAT 561
Db      160 LeuArgTrpGlyIlePheAspGluTyrAsnGlyAspGlnProPheTyrIleSerArgArg 179
QY      562 GGAAGAATACAAGCAGTAAAGATGTTTCAGCAGGTATTACTGGTACAAATGCTGTAAGAAG 621
Db      180 AsnThrIleGluAlaThrArgCysSerThrHisIleThrGlyThrAsnValIleValLys 199
QY      622 TGTACGAGGAGGAGCTGTTTACACAAAGATGCACATTCATATAAAGTAAACAGGACTTAT 681
Db      200 CysGlnGlyGlySerCysIleThrArgProCysArgArgAspSerGlnThrGlyLeuTyr 219
QY      682 GAAAAGGATGTGAGTTGTTCTCCAAATCCCGCAGACGAGAGGCTTCTATAATGTTT 741
Db      220 GluAlaLysCysThrPheIleProGluLysSerGlnThrAlaArgGluSerIleMetPhe 239
QY      742 GCACAACTGTTGATTTCTATAGTTGAATTTCTGTACAGAACAAACACACAAAGAGCT 801
Db      240 MetGlnSerLeuHisSerValThrGluPheCysThrGluLysThrHisAsnValGluAla 259
QY      802 CCAACAAAGCAAAATCAAAAATGCATCTCCGACACATCGGAAAGTATCGTGTATCT 861
Db      260 ProAsnLeuGlnAsnLysMetCysAsnGlyLysSerThrTrpAspValIleMetAsnSer 279
QY      862 GAGGACTTTAAGAAAACCACTCTATGACA-----ACACAGCCACCAATCCCACTTC 915
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QY      916 TCATTGCTGCAGATTGGGACAAAGAAATGTTGTGTTGTAGTCTTGACAAAATCTGGAAGCATG 975
Db      300 SerLeuLeuLysSerLysGlnArgValValCysLeuValLeuAspLysSerGlySerMet 319
QY      976 GCGACTGTATAACCGCTCAATCGACTGAATCAAGCAGCGCCAGCTTTTCTGTCGTGAGACA 1035
Db      320 SerSerGluAspArgLeuPheArgMetAsnGlnAlaAlaGluLeuPheLeuIleGlnIle 339
QY      1036 GTTGAGCTGGGCTCTGGGTGGATGTGACATTTGACGTGCTGCCCATGTACAAAGT 1095
Db      340 IleGluLysGlySerLeuValGlyMetValThrPheAspSerValAlaGluIleArgAsn 359
QY      1096 GAATCATACATGATAAACAGTGGCAGTCACAGGACACACTCCGCCAAAAGATTACTGCA 1155
Db      360 AsnLeuThrLysIleThrAspAsnValTyrGluAsnIleThrAlaAsnLeuProGln 379
QY      1156 GCAGTTCAGGAGGACCTCATCTGACGCGGCTTCGATCGGCAATTT---ACTGTGATT 1212
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QY      1213 AGGAAGAATATCCAATGATGATCTCAATTTGCTGCTGACCGGAGGAGGAGCAAC 1272
Db      400 GlnSerGlnGlnSerThrSerGlySerGluIleIleLeuLeuThrAspGlyGluAspAsn 419
QY      1273 ACTATAAGTGGTGTCTTTAAGCAGGTCAACAAAGTGGTGCCATCATCACACAGTCCGT 1332

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Db 420 GluileHisSerCysIleGluGluValLysGlnSerGlyValIleHisThrValAla 439  
QY 1333 TTGGGGCCCTCGAGCTCAAGAACTAGAGGAGCTGTCCAAATGACAGGAGGTTTACAG 1392  
Db 440 LeuGlyProSerAlaAlaLysGluLeuGluThrLeuSerAspMetThrGlyGlyHisArg 459  
QY 1393 ACATATGCTTCAGATCAAGTTCAGAACAAATGCGCTCATTTGCTTTGGGCGCCCTTCA 1452  
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QY 1453 TCAGGAATGAGGCTCTCTCAGCGCTCCATCCAGCTGAGAGTAAGGATTAACCCCTC 1512  
Db 478 SerArgSerGlySerIleThrGlnThrIleGlnLeuGluSerLysAlaLeuAlaIle 497  
QY 1513 CAGAACAGCCAGTGGATGATGCGCAGTGTGCGAGCAGCAGCGTGGGAAGGACACT 1572  
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QY 1573 TTGTTTCTTATCAGCTGGACAAGCGAGCTCCCAAAATCCTTCTCTGGGATCCCAAGTGA 1632  
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QY 1684 CAAATCCAGGCAATGCTAAGGTGTGCACTTGGAAATACAGTCTG-----CAAGCA 1734  
Db 558 ArgIleProGlyIleAlaGluThrGlyThrTrpThrTyrSerLeuLeuAsnAsnHisAla 577  
QY 1735 AGCTCACAACCTTGACCTGACTGTACGTCCTGCGTCCAAATGCTACCTGCTCCCA 1794  
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QY 1795 ATTACAGTACCTCCAAACAGAACAGGACACCAACAAATCCCGAGCGCTCTGTAGTT 1854  
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QY 1855 TATGCAAAATATTCGCAAGGAGCCTCCCAATTCCTCAGGGCCAGTGTACAGCCCTGATT 1914  
Db 618 TyrAlaGlnValSerGlnGlyPheLeuProValLeuGlyIleAsnValThrAlaIleIle 637  
QY 1915 GAATCAGTGAATGGAACAACTTACCTTGGAACTTCTGGATTAATGGAGCGGTCTGAT 1974  
Db 638 GluThrGluAspGlyHisGlnValThrLeuGluLeuTyrAspAsnGlyAlaGlyAlaAsp 657  
QY 1975 GCTACTAAGATGAGCGGTGTCTACTCAAGGTATTTTCAACACTTATGACACGATGCTAGA 2034  
Db 658 AlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAspThrAsnGlyArg 677  
QY 2035 TACAGTGTAAAGTGGCGCTCTGGAGGAGTTAAGCGACGACGAGGAGTGTATACC 2094  
Db 678 TyrSerValLysValHisAlaGluAlaArgAsnAsnThrAlaArgLeuSerLeuArgGln 697  
QY 2095 CAGCAGAGTGAGCACTGTACATACCTGCTGGATGAGATGATCAATCAATGGAAT 2154  
Db 698 ProGlnAsnLysAlaLeuTyrIleProGlyTyrIleGluAsnGlyLysIleIleLeuAsn 717  
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Db 737 ArgLeuThrSerGlyLysSerPheThrValSerGlyAlaProProGlyAsnHisProSer 756  
QY 2272 CTCCTCCACCTGGCCAAATACCGACCTGAAGGCG-----GAAATTCACGGGGC 2322  
Db 757 ValLeuProProAsnLysIleThrAspLeuGluAlaLysPheLysGluAspHis----- 774  
QY 2323 AGCTCTCAATTAATCTGACTTGGACAGCTCTCGGGGATGATATGACCATGGAACAGCTCAC 2382  
Db 775 -----IleGlnLeuSerTrpThrAlaProAlaAsnValLeuAspLysGlyLysAlaAsn 792

QY 2383 AAGTATATCATTCGAATAAGTAAAGTATTTCTTGTATCTCAGACAGCAAGTTCAATCAATCT 2442  
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QY 2503 TTTAAACCCAGAAAACATTACTTTTGAATAATGCACAGATCTTTTTCATGCTTATTCAGGCT 2562  
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QY 2563 GTTGATAAGGTCGATCTGAAATCAGAAATATCCAACTTGCACGAGTATCTTTGTTTATT 2622  
Db 853 IleAsnGluAlaAsnLeuThrSerGluValSerAsnIleAlaGlnAlaIleLysPheIle 872  
QY 2623 CTTCCACAGACTCCGCCAGACACACCTAGTCTCT 2655  
Db 873 Pro-----MetProGluAspSerValPro 880

## RESULT 6

US-09-623-624-18  
; Sequence 18, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 18  
; LENGTH: 903  
; TYPE: PRT  
; ORGANISM: Bos taurus  
US-09-623-624-18

Alignment Scores:  
Pred. No.: 3,196-201 Length: 903  
Score: 2411.50 Matches: 483  
Percent Similarity: 70.37% Conservative: 144  
Best Local Similarity: 54.21% Mismatches: 239  
Query Match: 47.47% Indels: 25  
DB: 4 Gaps: 13



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QY 2212 AGAACATCTCCGGAGGCTCATTTGGCTTCTGATGTCCTCAAAATCTCCCATACCTGAT 2271
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QY 2272 CTCCTCCACCTGGCCAAATCAACCGACCTGAAAGGCG-----GAAATTCACGGGGCG 2322
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QY 2323 AGTCCTCAATTAATCTGACCTGGACAGCTCTCTGGGATGATTATGACCATGGAACAGCTCAC 2382
Db 775 -----IleGlnLeuSerTrpThrAlaProAlaAsnValLeuAspLysGlyLysAlaAsn 792
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QY 2443 CTTCAAGTGAATACTACTCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTTG 2502
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QY 2563 GTTGATAAGTCGATCTGAAATCAGAAATATCAACATTCGACGAGTACTTTGTTTATT 2622
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Db 873 Pro-----MetProGluAspSerValPro 880

RESULT 7
US-09-193-562D-2
; Sequence 2, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 2
; LENGTH: 905
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells
US-09-193-562D-2

Alignment Scores:
Pred. No.: 5,92e-194 Length: 905
Score: 2328.00 Matches: 465
Percent Similarity: 69.84% Conservative: 144
Best Local Similarity: 53.33% Mismatches: 247
Query Match: 45.83% Indels: 16
DB: 4 Gaps: 11

US-09-049-696-18 (1-2813) x US-09-193-562D-2 (1-905)
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QY 106 AACAAATGGCTATGAAGGCATTTGCTTGCAATCGACCCCAATGTGCCAGAAGATGAA 165
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Db 27 IleAsnAsnGlyTyAspGlylleValIleAlaIleAsnProSerValProGluAspGlu 46
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Db 47 LysLeuIleGluAsnIleLysGluMetValThrGluAlaSerThrTyrllePheHisAla 66
QY 226 ACAGGAACCGATTTTATTTCAAAATGTTGCCATTTTCAATTCCTGAAACATGGAAGACA 285
Db 67 ThrLysArgValTyPheArgAsnValSerIleLeuIleProMetThrTrpLysSer 86
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QY 346 GAGTCTACTCTCCAGGTAATGATGAACCTACACTGACGATGGCGAACTGTGGAGAG 405
Db 107 AsnProTyrlleLysTyGlyAspAspProTyrlleLysGlnTyGlyArgCysGlyGlu 126
QY 406 AAGGTGAAAGGATCCACTCTCTGATTTCAATTCAGGAGGAAAAGTTAGCTGAATAT 465
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QY 466 GCACCAAGGTAGGCACTTTGTCATGAGTGGGCTCATCTACGATGGGAGGATTTTAC 525
Db 147 GlySerArgGlyArgValPheValHisGluTrpAlaHisLeuArgTrpGlyIlePheAsp 166
QY 526 GAGTACAATAATGATGAGAAATTTACTTATCTCC---AATGGAAGAATACAAAGCAGTAAGA 582
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QY 583 TCTTCAGCAGGTATTACTGTGTACAAATGATGTA---AAGAAGTGTGAGGAGGACGCTGT 639
Db 187 CysSerThrHisIleThrGlyIleAsnValValPheLysLysCysProGlyGlySerCys 206
QY 640 TACACCAAAAGATGCACATTCATTAAGTAAAGGACTCTATGAAAGAAAGATGTGAGTTT 699
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QY 700 GTTCTCAATCCCGCAGACGAGAGGCTTCTATAATGTTTGTGCACAAATGTGATTTCT 759
Db 227 LeuProLysLysSerGlnThrAlaLysGluSerIleMetPheMetProSerLeuHisSer 246
QY 760 ATAGTTGAATCTGTGACAGAACAAACCAACAAAGAGCTCCAAACAAAGCAAAATCAA 819
Db 247 ValThrGluPheCysThrGlyLysThrHisAsnThrGluAlaProAsnLeuGlnAsnLys 266
QY 820 AATGCAATCTCCGAAGCAGCATGGGAAGTGTGCGTATTCGAGGACTTTAAGAAAACC 879
Db 267 MetCysAsnGlyLysSerThrTrpAspValIleMetAsnSerValAspPheGlnAsnThr 286
QY 880 ACTCTCTATGACA-----ACACAGCCCAACCAATCCCACTTCTCATTTGTCGAGATGGA 933
Db 287 SerProMetThrGluMetAsnProProThrHisProThrPheSerLeuLeuLysSerLys 306
QY 934 CAAAGAATTTGTGTTTGTCTTCACAAATCTGGAAGCATGCGGATCGGTAAACCCGCTC 993
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QY 994 AATCGACTGAATCAAGCAGGCGCAGCTTTTCTGCTGTCGACAGACTGAGTGGGCTCTGG 1053
Db 327 PheGlnMetAsnGlnAlaGluLeuTyrlleGlnValIleGluLysGlySerLeu 346
QY 1054 GTTGGGATGTCACATTTGACAGAGTGTGCCCTCATGATGACAAAGTGAACCTCATACAGATAAAC 1113
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QY 1114 AGTGGCAGTGCAGGAGCACACTCCGCAAAAGATTACCTGCGACGACTTTCAGAGGAGCG 1173
Db 367 AspAspAsnValTyrlleGlnLysIleThrAlaLysLeuProGlnValAlaAsnGlyLysThr 386
QY 1174 TCCATCTCGCAGCGGCTTCGATCGCGATTT---ACTGTGATTTAGGAAGAAATATCCAACT 1230
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Db 80 ValProMetThrTrpLysSerLysSerGluTyrLeuMetProLysArgGluSerTyrAsp 99  
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Db 100 LysAlaAspValIleValAlaAspProHisLeuGlnHisGlyAspAspProTyrThrLeu 119  
Qy 385 CAGATGGGCACTGTGGAGAGAGGTGAAGAGTCCACTCTACTCTCTGATTTTCATGCA 444  
Db 120 GlnTyrGlyGlnCysGlyAspArgGlyGlnTyrIleHisPheThrProAsnPheLeuLeu 139  
Qy 445 GCAAAAAGCTTAGCTGAATATGACCAACAGGTAGGGCATTTGTCCACTGAGTGGGCTCAT 504  
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Qy 505 CTACGATGGGAGTATTTCACGAGTACAATAATGATGAGAAATTCCTACTTATCC---AAT 561  
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Db 380 GlnAlaSerGlyGlyThrSerIleCysHisGlyLeuGlnAlaGlyPheGlnAlaIleThr 399  
Qy 1216 AAGAAA---TATCCAACTGATGATCTGAAATTTGCTCTGACGATGGGGAAGACAAC 1272  
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Qy 1273 ACTATAAGTGGGTGTTTAAACGAGGTCAAAAGGTGGTCCCATCATCCACACAGTCGCT 1332  
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Qy 1333 TTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAGTGTCCAAATGACAGCAGGTTTACAG 1392  
Db 440 LeuGlyProSerArgAlaArgGluLeuGluThrLeuSerAspMetThrGlyGlyLeuArg 459

Qy 1393 ACATATGCTTCAGATCAAGTTTCAGAACAAATGCGCTCATTGATGCTTTTGGGGCCCTTTCA 1452  
Db 460 PheTyrAlaAsnLysAspLeu-----AenSerLeuIleAspAlaPheSerArgIleSer 477  
Qy 1453 TCAGGAATATGGAGTGTCTCTCAGCGCTCCATCCAGTCTGAGCTAAGGATTAACCCCTC 1512  
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Qy 1633 CAGAG-----CAGGTGGCTTTGTAGTGGACAAA---AACACCAAAATGCGCTACCTC 1683  
Db 538 LysLysTyrThrThrSerAspPheGlnAspAspLysLeuAsnIleArgSerAlaArgLeu 557  
Qy 1684 CAAATCCAGGAGCTTGAAGTTGCGCACTTGGAAATACAGTCTGCAAGCAAGC---TCA 1740  
Db 558 GlnIleProGlyThrAlaGluThrGlyThrTrpThrTyrSerTyrThrGlyThrLysSer 577  
Qy 1741 CAAACCTTGACCTGACTGTCTACGTCCTCGTCCGTCCTCAATGTACCTGCTCCAAATCA 1800  
Db 578 GlnIleThrMetThrValThrThrArgAlaArgSerProThrMetGluProLeuLeu 597  
Qy 1801 GTGACTTCCAAAACGAAACAGGACACCAGCAAAATTCCTCCAGCCCTCTGCTAGTTATGCA 1860  
Db 598 GlyTyrCysTyrMetSerGlnSerThrAlaGlnTyrProSerArgMetIleValTyrAla 617  
Qy 1861 AATATTCCGCAAGGAGCTCCCAATTTCTCAGGCGCAGTGTCCAGCCCTGATTTGAATCA 1920  
Db 618 ArgValSerGlnGlyPheLeuProValLeuGlyAlaAsnValThrAlaLeuIleGluAla 637  
Qy 1921 GTGAATGGAACAAAGTTTACCTTGGAACTTACTGGATAATGGAGCAGGTCTGCTACT 1980  
Db 638 GluHisGlyHisGlnValThrLeuGluLeuTyrAspAsnGlyAlaGlyAlaAspIleVal 657  
Qy 1981 AAGGATGAGGTGCTTACTCAAGGTATTTCACAACTTATGACACGATCGTAGATACAGT 2040  
Db 658 LysAsnAspGlyIleTyrThrArgTyrPheThrAspTyrHisGlyAsnGlyArgTyrSer 677  
Qy 2041 GTAAAAGTGGCGCTCTGGAGAGTTAAACGAGCAGCAGCAGCAGAGTG-----ATA 2091  
Db 678 LeuLysValArg-----ValGlnAlaGlnArgAsnLysThrArgLeuSerLeu 693  
Qy 2092 CCCCAGCAGGTGGAGCACTGTACATACCTGCTGGATTGAGAATGATGAATACAAATCG 2151  
Db 694 ArgGlnLysAsnLysSerLeuTyrIleProGlyTyrValGluAsnGlyLysIleValLeu 713  
Qy 2152 AATCCACCAAGACCTGAAATTAATAGGATGATGTTCAACACAGCAAGCTGTTTTCAGC 2211  
Db 714 AsnProArgProAspValGlnGluAlaIleGluAlaThrValGluAspPheAsn 733  
Qy 2212 AGAACATCTCGGAGGCTCATTTCTGGCTTCTGATGTCCCAATGCTCCCATACCTGAT 2271  
Db 734 ArgValThrSerGlyGlySerPheThrValSerGlyAlaPro-----ProAsp 749  
Qy 2272 -----CTCTTCCACCTGGCCAAATCACCGACTGAAAGCGGAAATTCAC 2316  
Db 750 GlyAspHisAlaArgValPheProProSerLysValThrAspLeuGluAlaGluPheIle 769  
Qy 2317 GGGGGAGTCTCAATTAATCTGACTTGGACAGCTCTCTGGGATGATGATGACCATGGAACA 2376  
Db 770 ---GlyAspTyrIleHisLeuThrTrpThrAlaProGlyLysValLeuAspAsnGlyArg 788  
Qy 2377 GCTCAAGATATATCATTCGATAGTACAAGTATTTCTTGATCTCAGACAGATTCAT 2436  
Db 789 AlaHisArgTyrIleIleArgMetSerGlnHisProLeuAspLeuGlnAspPheAsn 808









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; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 12
; LENGTH: 821
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
; US-09-193-562D-12

Alignment Scores:
  Pred. No.:      2,64e-176      Length:      821
  Score:          2125.00        Matches:      425
  Percent Similarity: 69.62%      Conservative: 125
  Best Local Similarity: 53.80%    Mismatches:  224
  Query Match:      41.83%       Indels:       16
  DB:               4           Gaps:          11

US-09-049-696-18 (1-2813) x US-09-193-562D-12 (1-821)
QY 46 GTGTCATCTTGTATCTTCACTTCTAGAGGGGCCCTGAGTAATTCACCTCAATTCAGCTG 105
DB 8 IleLeuPheLeuThrLeuHisLeuLeuProGly---MetLysSerSerMetValAsnLeu 26
QY 106 AACAAATCGGTATGAGCATGTCGTGCAATGCAATGCCCAATGTCAGAGATGAA 165
DB 27 IleAsnAsnGlyTyraSpGlyIleValIleAlaIleAsnProSerValProGluAspGlu 46
QY 166 ACATCATTCACAAATAAGGACATGTCAGCCAGCATCTCTGTATCTGTTGAAGCT 225
DB 47 LysLeuIleGluAsnIleLysGluMetValThrGluAlaSerThrTyraLeuPheHisAla 66
QY 226 ACAGGAAAGCGATTTATTTCAAAATATGTTGCCATTTGATCTCTGAAAACATGGAAGACA 285
DB 67 ThrLysArgArgValTyraPheArgAsnValSerIleLeuIleProMetThrTrpLysSer 86
QY 286 AAGCTGACTATGTAGACCAAACTTGAGACCTTACAAAATGCTGATGTTCTGGTGTCT 345
DB 87 LysSerGluTyraPheIleProLysGlnGluSerTyraAspGlnAlaAspValIleValAla 106
QY 346 GAGTCTACTCTCCAGGTATGATGAACCTTACACTGAGCAGATGGCACTGTGGAGAG 405
DB 107 AsnProTyraLeuLysTyraGlyAspAspProTyraThrLeuGlnTyraGlyArgCysGlyGlu 126
QY 406 AAGGGTGAAGAGTCCACCTCACTCTCTGATTTCAATTCAGGAAAAAAGTTAGCTGAATAT 465
DB 127 LysGlyLysTyraIleHisPheThrProAsnPheLeuLeuThrAsnAsnPheHisIleTyra 146
QY 466 GGACCAACAGGTAGGGCATTTGTCCATGAGTGGGCTCATCTACGATGGGAGTATTGAC 525
DB 147 GlySerArgArgValPheValHisGluTrpAlaHisLeuArgTrpGlyIlePheAsp 166
QY 526 GAGTACATATGATGAGAAATCTTACTTATCC---AATGGAAGATACAGCAGTAAAGA 582
DB 167 GluTyraAsnValAspGlnProPheTyraIleSerArgLysAsnThrIleGluAlaThrArg 186
QY 583 TGTTCACAGGTATTACTGTACAAATAGTAGTA---AAGAAGTCTCAGGAGGACAGCTGT 639
DB 187 CysSerThrHisIleThrGlyIleAsnValValPheLysLysCysProGlyGlySerCys 206
QY 640 TACACAAAAGATGCACATCAATAAGTAGTAACAGGACTCTATGAAAAGAGATGTGAGTTT 699
DB 207 IleThrSerLeuCysArgAspSerGlnThrGlyLeuTyraGluAlaLysCysThrPhe 226
QY 700 GTTCTCAATCCCGCCACGAGAGAGCTTCTATATATGTTTGCACAAATGTTGATCT 759
DB 227 LeuProLysLysSerGlnThrAlaLysGluSerIleMetPheMetProSerLeuHisSer 246
QY 760 ATAGTTCAATCTGTACAGACAAACCAACCAAGAAAGCTCCAAACAGCAAAATCAA 819
DB 247 ValThrGluPheCysThrGlyHisAsnThrGluAlaProAsnLeuGlnAsnLys 266
QY 820 AATGCAATCTCCGAGCACATGGGAAGTGATCGTGATTCGTAGGACTTTAAGAAAACC 879

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267 MetCysAsnGlyLysSerThrTrpAspValIleMetAsnSerValAspPheGlnAsnThr 286
880 ACTCTATGACA-----ACACAGCAGCCAAATCCACCTTCTCATTTGCTGCAGATTGGA 933
287 SerProMetThrGluMetAsnProProThrHisProThrPheSerLeuLeuLysSerLys 306
934 CAAAGAAATGTGTGTTAGTCTCTGCAAAATCTGGAAGATGCGAGCTGGTAAACCGCTC 993
307 GlnArgValValCysLeuValLeuAspLysSerGlySerMetSerAlaGluAspArgLeu 326
994 AATCGACTGAATCAACAGCAGCCAGCTTTCTCTGCTGCAGACACTTCAGCTGGGTCTCGG 1053
327 PheGlnMetAsnGlnAlaGluLeuTyraLeuIleGlnValIleGluLysGlySerLeu 346
1054 GTTGGGATGCTGACATTTGACAGTGTGCCCATGTACAAAGTGAATCATCATACAGATAAAC 1113
347 ValGlyMetValThrPheAspSerValAlaGluIleGlnAsnHisLeuThrArgIleThr 366
1114 AGTGGCAGTGACAGGACACACTTCGCCAAAAGATTAACCTGCAGCAGACTTCAGAGGAGCG 1173
367 AspAspAsnValTyraGlnLysIleThrAlaLysLeuProGlnValAlaAsnGlyGlyThr 386
1174 TCCATCTGACAGCGGCTTCGATCGGCATTT---ACTGTGATTTAGGAAGAAATATCCAAC 1230
387 SerIleCysArgGlyLeuLysAlaGlyPheGlnAlaIleIleHisSerAspGlnSerThr 406
1231 GATGGATCTGAAATCTGCTGCTGCGATGGGGAAGACAACTATAAGTGGGTGCTTT 1290
407 SerGlySerGluIleLeuLeuLeuThrAspGlyGluAsnGluIleAsnSerCysPhe 426
1291 AACGAGGTCAAAACAAAGTGGTCCATCATCCACACAGTGGCTTTGGGGCCCTCTGACGCT 1350
427 GluAspValLysArgSerGlyAlaIleIleHisThrIleAlaLeuGlyProSerAlaAla 446
1351 CAAGAATAGAGAGCTGTCCAAAATGACAGAGGTTTACAGACATATGCTTCAGATCAA 1410
447 LysGluLeuGluThrLysSerAsnMetThrGlyGlyTyraArgPhePheAlaAsnLysAsp 466
1411 GTTCAGAACAAATCGCTCATTTGATGCTTTTGGGGCCCTTTCATCAGGAAATGGAGCTGC 1470
467 Ile-----ThrGlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIle 484
1471 TCTCAGCGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACACAGCCAGTGGATG 1530
485 ThrGlnGlnAlaIleGlnLeuGluSerLysAlaLeuLysIleThrGlyArgLysArgVal 504
1531 AATGGCAGCTGATCGTGACAGCACCGTGGGAAAGACACTGTTGTTTCTTATCACCCTGG 1590
505 AsnGlyThrValProValAspSerThrValGlyAsnAspThrPhePheValValThrTrp 524
1591 ACAACAGCAGCTCCCAAAATCTTCTCTGGATCCCGATCCAGTGACAG-----AAGCAAGGT 1644
525 ThrIleGlnLysProGluIleValLeuGlnAspProLysGlyLysLysTyraSer 544
1645 GGCTTTGTAGTGACAAA---AACACCAAAATGGCTTACCTCCAAATCCAGGCAATTCCT 1701
545 AspPheLysGluAspLysLeuAsnIleArgSerAlaArgLeuGlnIleProGlyIleAla 564
1702 AAGTTGGCATTTGGAATAACAGTCTG-----CAACGAAGCTCACAAAACCTTGACC 1752
565 GluThrGlyThrTrpThrTyraSerLeuLeuAsnHisAlaSerSerGlnMetLeuThr 584
1753 CTGACTCTCAGCTCCCGTGGTCCATGCTACCTGCTCCATTTACAGTGACTTCCTCAA 1812
585 ValThrValThrThrArgAlaArgSerProThrIleProProValIleAlaThrAlaHis 604
1813 ACCAAAGGACACACAGCAAAATCCCGACCCCTCTGTAGTCTTATGCAATATTCGCCAA 1872
605 MetSerGlnHisThrAlaHisTyraProSerProMetIleValTyraAlaGlnValSerGln 624
1873 GGAGCCTCCCAATCTCTCAGGGCCAGTGTGCAGCCCTGATTCAGTGAATGGAATA 1932

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Db 625 GlyPheLeuProValLeuGlyIleSerValIleAlaIleIleGluThrGluAspGlyHis 644  
Qy 1933 ACAGTTACCTTGAACCTACTGGATATGAGCAGAGGCTGCTACTAAGGATGACGCT 1992  
Db 645 GlnValThrGluGluLeuTrpAspAenGlyAlaGlyArgAspThrValLysAsnAspGly 664  
Qy 1993 GTCTACTCAAGGTATTTCACCACTTATGACACCAATGGTAGATACAGTGTAAAGTGGCG 2052  
Db 665 IleTyrSerArgTyrPheThrAspTyrTyrGlyAsnGlyArgTyrSerLeuLysValHis 684  
Qy 2053 GCTCTGGGAGGAGTTAACGAGCCAGCAGGAGAGTATACCCAGCAGAGTGGAGCAGCTG 2112  
Db 685 AlaGlnAlaArgAsnAsnThrAlaAaGLeuAsnLeuArgGlnProGlnAsnLysValLeu 704  
Qy 2113 TACATACCTGGCTGGATTGAGATGATGAATACATGAATCCACCAAGACCTGGAAT 2172  
Db 705 TyrValProGlyTyrValGluAsnGlyLysIleIleLeuAsnProProArgProGluVal 724  
Qy 2173 AATAAGGATGATGTTCAACACAGCAAGTGTGTTTCAGCAGAAACATCCTCGGAGGCTCA 2232  
Db 725 LysAspAspLeuAlaLysAlaLysIleGluAspPheSerArgLeuThrSerGlyGlySer 744  
Qy 2233 TTGTGGCTTCTGATGTC---CCAAATGCTCCCATACCTGATCTTCCCACTGCGCCAA 2289  
Db 745 PheThrValSerGlyAlaProProGlyAsnHisProSerValPheProProSerLys 764  
Qy 2290 ATCACCAGCTGAGCGGAAATTCACGGGGGAGCTCTATTATCTGACTTGGACAGCT 2349  
Db 765 IleThrAspLeuGluAlaLysPheLys---GluAspTyrIleGlnLeuSerTrpThrAla 783  
Qy 2350 CTGGGGGATGATTATGACCATGGAACAGCT 2379  
Db 784 ProGlyAsnValLeuAspLysGlyLysAla 793

RESULT 12

US-09-643-597-161  
; Sequence 161, Application US/09643597  
; Patent No. 6426072  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Fan, Liqun  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Hosken, Nancy R.  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Li, Samuel X.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Henderson, Robert A.  
; APPLICANT: McNeill, Patricia D.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER  
; FILE REFERENCE: 210121.455C11  
; CURRENT APPLICATION NUMBER: US/09/643,597  
; CURRENT FILING DATE: 2000-08-21  
; NUMBER OF SEQ ID NOS: 369  
; SOFTWARE: FactSeq for Windows Version 3.0  
; SEQ ID NO 161  
; LENGTH: 943  
; TYPE: PRT  
; ORGANISM: Homo sapien  
US-09-643-597-161

Alignment Scores:  
Pred. No.: 4.8e-165 Length: 943  
Score: 1996.00 Matches: 417  
Percent Similarity: 63.26% Conservative: 165  
Best Local Similarity: 45.33% Mismatches: 282  
Query Match: 39.29% Indels: 56  
DB: 4 Gaps: 21

US-09-049-696-18 (1-2813) x US-09-643-597-161 (1-943)

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Qy 64 CACCTTCTAGAGGGGCCCTGAGTAATTCACCTC-----ATTGAGCTG 105  
Db 20 -----ValAlaLeuSerSerGluLeuProPheLeuGlyAlaGlyValGlnLeu 35  
Qy 106 AACAAACAATGGCTATGAGGCAATTCGTTGCAATCGCCCAATGTGCCAGAGATGAA 165  
Db 36 GlnAspAsnGlyTyrAsnGlyLeuLeuIleAlaIleAsnProGlnValProGluAsnGln 55  
Qy 166 ACACCTCAATCAACAATAAAGACATGTGTGACCCAGGACCTCTCTGTATCTGTTGAAGCT 225  
Db 56 AsnLeuIleSerAsnIleLysGluMetIleThrGluAlaSerPheTyrLeuPheAsnAla 75  
Qy 226 ACAGGAAGCGATTTATTTCAAAATGTGTCATTTTGAATTCCTCTGAAACATGGAAGACA 285  
Db 76 ThrLysArgValPhePheArgAsnIleLysIleLeuIleProAlaThrTrpLysAla 95  
Qy 286 AAGGCTGACTATGTGAGACCAAACTTGAGACCTACAAAATGCTGATCTCTGTTGCT 345  
Db 96 Asn---AsnAsnSerLysIleLysGlnGluSerTyrGluLysAlaAsnValIleValThr 114  
Qy 346 GAGTCTACTCTCCAGGTAATGATGAACCTACACTGACAGATGGGCAACTGTGGAGAG 405  
Db 115 AspTyrTrpGlyAlaHisGlyAspAspProTyrThrLeuGlnTyrArgGlyCysGlyLys 134  
Qy 406 AAGGTGAAGGATCCACCTCACTCTCTGATTTTCATTGAGGAGAAAGTTA---GCTGAA 462  
Db 135 GluGlyLysTyrIleHisPheThrProAsnPheLeuLeuAsnAspAsnLeuThrAlaGly 154  
Qy 463 TATGACACCAAGGTAGGCAATTCCTCATGATGGGCTCATCTAGTGGGAGATTT 522  
Db 155 TyrGlySerArgGlyArgValPheValHisGluTrpAlaHisLeuArgTrpGlyValPhe 174  
Qy 523 GACGAGTACAATAATGATGAGAAATTTCTACTTATCC---AATCGAAGATAACAAGCAGTA 579  
Db 175 AspGluTyrAsnAsnAspLysProPheTyrIleAsnGlyGlnAsnGlnIleLysValThr 194  
Qy 580 AGATGTTACAGAGGTATTACTGTGTAACAATGTAGTAAGAAGTGTGAGGAGGACGCTGT 639  
Db 195 ArgCysSerSerAspIleThrGlyIlePheVal-----CysGluLysGlyProCys 211  
Qy 640 TACACCAAAAGATGCACATTCATTAAGTAAACAGGACTCTATCAAAAAGAGTGTGAGTT 699  
Db 212 ProGlnGluAsnCysIleSerLys-----LeuPheLysGluGlyCysThrPhe 228  
Qy 700 GTTCTCCAATCCGCCAGCAGGAGAGGCTTCTATAATGTTTGCACAAATGTTGATTTCT 759  
Db 229 IleTyrAsnSerThrGlnAsnAlaThrAlaSerIleMetPheMetGlnSerLeuSerSer 248  
Qy 760 ATAGTTGAATTCGTACAGAAACAAACCAACAAAGAGTCCCAACAAAGCAAAATCAA 819  
Db 249 ValValGluPheCysAsnAlaSerThrHisAsnGlnGluAlaProAsnLeuGlnAsnGln 268  
Qy 820 AATGCAATCTCCGAAGCAGCATGGGAAGTGTCCGTGATTTCTGAGGACTTTTAAGAAACC 879  
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Db 289 PheProMetAsnGlyThrGluLeuProProProThrPheSerLeuValGluAlaGly 308  
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Db 309 AspLysValValCysLeuValLeuAspValSerSerLysMetAlaGluAlaAspArgLeu 328  
Qy 994 AATCGACTCAATCAAGCAGCGCCAGCTTTTCTGCTGCACAGCAGTTCAGTGGGCTCTG 1053  
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Qy 1054 GTTGGGATGGTGACATTTTGACAGTGTGCCCATGTACAAAGTGAACACTACATACAGATAAAC 1113



Db 1 MetThrGlnArgSerIleAla---GlyProIleCysAsnLeuLysPheValThrLeuLeu 19  
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Db 20 -----ValAlaLeuSerSerGluLeuProPheLeuGlyAlaGlyValGlnLeu 35  
QY 106 AACACAATGGCTATGAAGCCATTGTCGTTCAATCGACCCCAATGTGCCAGAGATGAA 165  
Db 36 GlnAspAsnGlyTyrAsnGlyLeuLeuIleAlaIleAsnProGlnValProGluAsnGln 55  
QY 166 ACACCTCATCAACAATAAAGGACATGGTGACCCAGGACATCTCTGATCTGTTTGAAGCT 225  
Db 56 AsnLeuIleSerAsnIleLysGluMetIleThrGluAlaSerPheTyrLeuPheAsnAla 75  
QY 226 ACAGGAAAGCGATTTATTCAAAATGTTGCCATTTGATTTCTCTCAACATGGAGACA 285  
Db 76 ThrLysArgValPhePheArgAsnIleLysIleLeuIleProAlaThrTrpLysAla 95  
QY 286 AAGGCTGACTATGTGAGACCCAAACTTGAGACCTACAAAATGCTGATGTTCTGGTTGCT 345  
Db 96 Asn---AsnAsnSerLysIleLysGlnGluSerTyrGluLysAlaAsnValIleValThr 114  
QY 346 GAGTCTACTCTCCAGGTAATGATGAACCTACACTGACGACATGGCCAACTGTGGAGAG 405  
Db 115 AspTyrGlyAlaHisGlyAspAspProTyrThrLeuGlnTyrArgGlyCysGlyLys 134  
QY 406 AAGGTGAAGGATCCACCTCACTCTCTGATTTCAATTCGAGGAAAAAGTTA---GCTGAA 462  
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QY 463 TATGGACCAACAGTAGGTCATTTGCCATGAGTGGCTCATCTACGATGGGGAGTATTT 522  
Db 155 TyrGlySerArgGlyArgValPheValHisGluTrpAlaHisLeuArgTrpGlyValPhe 174  
QY 523 GACGAGTACATAATGATGAGAAATCTACTTATCC---AATGGAAAGATAACAAGCAGTA 579  
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QY 580 AGATGTTACAGGATTAATCTGTACAAATGTAGTAAGAGTGTGAGGAGGCACCTGT 639  
Db 195 ArgCysSerSerAspIleThrGlyIlePheVal-----CysGluLysGlyProCys 211  
QY 640 TACACCAAAGATGCACATTAATAAGTAAGTAACAGGACTTATCAAAAAGATGTGAGTTT 699  
Db 212 ProGlnGluAsnCysIleLeuSerLys-----LeuPheLysGluGlyCysThrPhe 228  
QY 700 GTTCTCCAATCCCGCCAGAGGAGGCTTCTATATGTTTGCACAAATGTGATTTCT 759  
Db 229 IleTyrAsnSerThrGlnAsnAlaThrAlaSerIleMetPheMetGlnSerLeuSerSer 248  
QY 760 ATAGTTGAATTCGTACAGAACAAACCAACCAAGAGCTCCAAACAAAGCAAAATCAA 819  
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QY 820 AAATGCAATCTCGAAGCATGGGAGTGATCCGATTTCTGAGACTTTTAAGAAACC 879  
Db 269 MetCysLeuArgSerAlaTrpAspValIleThrAspSerAlaAspPheHisSer 288  
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Db 289 PheProMetAsnGlyThrGluLeuProProProPheSerLeuValGluAlaGly 308  
QY 934 CAAAGAAATGTGTGTTTGTCTTGTGACAAATCTGGAAGCATGCGGACTGTGTAACCCCTC 993  
Db 309 AspLysValValCysLeuValLeuAspValSerSerLysMetAlaGluAlaAspArgLeu 328  
QY 994 AATCGACTGAATCAACAGCCAGCTTTCTCTCTGACAGACATGCTGAGTGGGCTCTG 1053  
Db 329 LeuGlnLeuGlnAlaAlaGluPheTyrLeuMetGlnIleValGluIleHisThrPhe 348  
QY 1054 GTTGGGATGTGATTTGACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1113  
Db 349 ValGlyIleAlaSerPheAspSerLysGlyGluIleArgAlaGlnLeuHisGlnIleAsn 368

QY 1114 AGTGGCAGTGAACAGGACACACTCGCCAAAAGATTACTCTGCAGCAGCTTTCAGGAGGACG 1173  
Db 369 SerAsnAspAspArgLysLeuLeuValSerTyrLeuProThrThrValSerAlaLysThr 388  
QY 1174 -----TCCATCTGACGGGGCTTCGATCGGCATTTACTGTGATTAAGGAA---AAATAT 1224  
Db 389 AspIleSerIleCysSerGlyLeuLysLysGlyPheGluValValGluLysLeuAsnGly 408  
QY 1225 CCAACTGATGATCGAAATTTGCTGCTGAGGATGGGGAAGACACACTATAAGTGGG 1284  
Db 409 LysAlaTyrGlySerValMetIleLeuValThrSerGlyAspLysLeuLeuGlyAsn 428  
QY 1285 TCCTTTAAACGAGGTCAAACAAAGTGTGCTCATCCACACAGTCTCTTTGGGCGCTCT 1344  
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QY 1405 GATCAAGTTCAACAACATGGCTCATTTGATGCTTTTGGGCGCTTTCATCAGGAATGGA 1464  
Db 469 AspIleSerAsnSerAsnSerMetIleAspAlaPheSerArgIleSerSerGlyThrGly 488  
QY 1465 GCTGTCTCTCAGCGCTCCATCCAGCTTGAGATGAAGGATTAAACCTCCAGAACAGCCAG 1524  
Db 489 AspIlePheGlnGlnHisIleGlnLeuGluSerThrGlyGluAsnValLysProHisHis 508  
QY 1525 TGGATGAATGGCACAGTGTGTCGACAGCACCGCTGGGAAAGACACTTTGTTTCTTATC 1584  
Db 509 GlnLeuLysAsnThrValThrValAspAsnThrValGlyAsnAspThrMetPheLeuVal 528  
QY 1585 ACTGG---ACAAAGCAGCTCCCAATCTCTCTGGGATCCCGAGTCCGACAGAG--- 1638  
Db 529 ThrTrpGlnAlaSerGlyProGluIleIleLeuPheAspProAspGlyArgLysTyr 548  
QY 1639 ---CAAGGTGGCTTGTAGTGACAAAACACCAAAATCGCTTACCTCCAAATCCAGGC 1695  
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Db 569 ThrAlaLysProGlyHisTrpThrThrLeuAsnAsnThrHisHisSerLeuGlnAla 588  
QY 1747 TTGACCTGACTGTGACGTCCTCGTCCATGTCCTACCTGCTCCATTTACAGTACT 1806  
Db 589 LeuLysValThrValThrSerArgAlaSerAsnSerAlaValProProAlaThrValGlu 608  
QY 1807 TCCAAAACGAACAGGACACACCAAAATCCCGAGCTCTGCTAGTCTTATGCAAAATAT 1866  
Db 609 AlaPheValGluArgAspSerLeuHisPheProHisProValMetIleTyrAlaAsnVal 628  
QY 1867 CGCCAGGAGCTCCCAATTTCTGAGGCGCAGTGTGACAGCCCTGATTTGAATCAGTGAAT 1926  
Db 629 LysGlnGlyPheTyrProIleLeuAsnAlaThrValThrAlaThrValGluProGluThr 648  
QY 1927 GGAAACAAAGTACCTTGGAACTACTGGATATAGGAGCGGTGCTGCTGCTACTAGGAT 1986  
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QY 1987 GACGCTGTCTCAAGGTATTTCAACTTATGACACCAATGGTATGATACAGTGTAAAA 2046  
Db 669 AspGlyIleTyrSerArgTyrPhePheSerPheAlaAlaAsnGlyArgTyrSerLeuLys 688  
QY 2047 GTGCGGGCTCTGGGAGGAGTTAAACGAGCAGCAGGAGAGTGTATACCCAGCAG--- 2100  
Db 689 ValHis-----ValAsnHisSerProSerIleSerThrProAlaHisSerIle 704  
QY 2101 -----AGTGGAGCTGTACATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2154  
Db 705 ProGlySerHisAlaMetTyrValProGlyTyrThrAlaAsnGlyAsnIleGlnMetAsn 724

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QY 2155 CCACCAAGACCTGAAATTAATAGGATGATGTTCAACACAAAGCAAGTGTCTTTCAGCAGA 2214
Db 725 AlaProArgLysSerValGlyArgAsnGluGluGlyArgLysTrp---GlyPheSerArg 743
QY 2215 ACATCTCGGAGGCTCATTTGGCTTCTGATGTCCTCCAAATGCTCCCATACCTGATCTC 2274
Db 744 valSerSerGlyGlySerPheSerValLeuGlyValProAlaGlyProHisProAspVal 763
QY 2275 TTCCCACTGGCCCAATCACCGACCTGAAGCGGAAATTCACGGGGGCGAGCTCTCATTAAT 2334
Db 764 PheProProCysLysIleAspLeuGluAla---ValLysValGluGluLeuThr 782
QY 2335 CTGACTTGGACACTCTCTGGGATGATTATGACATGGAAACAGCTCAAGATATATCAT 2394
Db 783 LeuSerTrpThrAlaProGlyGluAspPheAspGlnGlyGlnAlaThrSerTyrgluile 802
QY 2395 CGAATAAGTACAAGTATCTTGTATCTCAGACAGCAAGTTCAATGAATCTCTCAAGTGAAT 2454
Db 803 ArgMetSerLysSerLeuGlnAsnIleGlnAspPheAsnAsnAlaIleLeuValAsn 822
QY 2455 ACTACTGCTCTCATCCCAAGGAGCAACTCTCAGGAAGTCTTTTGTAAACAGAA 2514
Db 823 ThrSerLysArgAsnProGlnGlnAlaGlyIleArgGluilePheThrPheSerProGln 842
QY 2515 ACATTAATCTTGGAAATGCCAGAT----- 2541
Db 843 IleSerThr-----AsnGlyProGluHisGlnProAsnGlyGluThrHisGluSerHis 860
QY 2542 ---CTTTTCATTCATTCAGGCTGTGATAAGGTGATGCTGAATCAGAAATATCCAAC 2598
Db 861 ArgIleTyrgValAlaIleArgAlaMetAspArgAsnSerLeuGlnSerAlaValSerAsn 880
QY 2599 ATTGACGAGTATCTTTGTTTATCTCTCCACAGACTCCGCGCAGACACACCTAGTCTGAT 2658
Db 881 IleAlaGlnAlaProLeuPheIleProProAsnSerAspPro---ValProAlaArgAsp 899

RESULT 14
US-09-542-615A-161
; Sequence 161, Application US/09542615A
; Patent No. 6518256
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy A.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
; FILE REFERENCE: 210121.455C8
; CURRENT APPLICATION NUMBER: US/09/542, 615A
; CURRENT FILING DATE: 2000-04-14
; NUMBER OF SEQ ID NOS: 350
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 161
; LENGTH: 943
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-542-615A-161

Alignment Scores:
Pred. No.: 4.8e-165 Length: 943
Score: 1996.00 Matches: 417
Percent Similarity: 63.26% Conservative: 165
Best Local Similarity: 45.33% Mismatches: 282
Query Match: 39.29% Indels: 56
DB: 4 Gaps: 21

US-09-049-696-18 (1-2813) x US-09-542-615A-161 (1-943)

QY 4 ATCACAGGAGATGACAGCAATGGGCCATTTAAAGATCTCTGTTCATCTTGATCTTT 63
Db 1 MetThrGlnArgSerIleAla---GlyProIleCysAsnLeuLysPheValThrLeuLeu 19
```

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QY 64 CACCTTCTAGAAAGGGCCCTGAGTAATTAATCACTC-----ATTCACTGT 105
Db 20 -----ValAlaLeuSerSerGluLeuProPheLeuGlyAlaGlyValGlnLeu 35
QY 106 AACAAACATGGCTATGAAGCATTCGTTGCAATGACCCCAATGTGCCAGAAATGAA 165
Db 36 GlnAspAsnGlyTyrglnGlyLeuLeuAlaIleAsnProGlnValProGluAsnGln 55
QY 166 ACATCTATTCAACAAATAAAGGACATGTGACCCAGGACATCTCTGTATCTGTTGAAGCT 225
Db 56 AsnLeuIleSerAsnIleLysGluMetIleThrGluAlaSerPheTyrglnPheAsnAla 75
QY 226 ACAGGAAAGCGATTTTATTTCAAAATGTTGCCATTTTGAATCTCTGAAACATGGAAGACA 285
Db 76 ThrLysArgArgValPhePheArgAsnIleLysIleLeuIleProAlaThrTrpLysAla 95
QY 286 AAGGCTGACTATGTGAGACCAAACTTGAGACCTACAAAATGCTGATGTTCTGGTGTCT 345
Db 96 Asn---AsnAsnSerLysIleLysGlnGluSerTyrglnLysAlaAsnValIleValThr 114
QY 346 GAGTCTACTCTCCAGGTAATGATGAACCTACACTGAGCAGATGGGCAACTGTGGAGAG 405
Db 115 AspTrpTyrgLysAlaHisGlyAspAspProTyrglnLeuGlnTyrgGlyCysGlyLys 134
QY 406 AAGGCTGAAAGGATCCACCTCACTCTCTGATTTTCATTTGACGAGAAAAGTTA---GCTGAA 462
Db 135 GluGlyLysTyrgIleHisPheThrProAsnPheLeuLeuAsnAspAsnLeuThrAlaGly 154
QY 463 TATGGACCAACAGTGAAGGATTTGTCATGATGGGCTCATCTACATGGGAGATATTT 522
Db 155 TyrgLysArgGlyArgValPheValHisGluTrpAlaHisLeuArgTrpGlyValPhe 174
QY 523 GACGAGTACAATAATCATGAGAAATCTACTTATCC---AATGGAAGAAATACAGCAGTA 579
Db 175 AspGluTyrgAsnAsnAspLysProPheTyrgIleAsnGlyGlnAsnGlnIleLysValThr 194
QY 580 AGATGTTTCAGCAGGTATTACTGTACAAATGTAGTAAGAAGTGTCTCAGGAGGAGCAGCTGT 639
Db 195 ArgCysSerSerAspIleThrGlyIlePheVal-----CysGluLysGlyProCys 211
QY 640 TACACCAAAAGATGCACATTCATAAAGTAACAGGACTCTATGAAAGAGATGTGAGTTT 699
Db 212 ProGlnGluAsnCysIleIleSerLys-----LeuPheLysGluGlyCysThrPhe 228
QY 700 GTTCTCCAATCCCGCCAGCAGGAGAGGCTTCTATATGTTTGCACACATGTGTATCT 759
Db 229 IleTyrgAsnSerThrGlnAsnAlaThrAlaSerIleMetMetGlnSerLeuSerSer 248
QY 760 ATAGTTGAATTTCTGTACAGAACAAACCAACAAAGAGAGCTCCAAACAGCAAAATCAA 819
Db 249 ValValGluPheCysAsnAlaSerThrHisAsnGlnGluAlaProAsnLeuGlnAsnGln 268
QY 820 AAATGCAATCTCCGAAGCAGCATGGGAAGTATCCGTGATTTCTGAGGACTTTAAGAAACC 879
Db 269 MetCysSerLeuArgSerAlaTrpAspValIleThrAspSerAlaAspPheHisSer 288
QY 880 ACTCTCTATG-----ACAACACAGCACCACAAATCCACCTTCTCATTTGCTGCAGATTGGA 933
Db 289 PheProMetAsnGlyThrGluLeuProProProThrPheSerLeuValGluAlaGly 308
QY 934 CAAAGAATTTGTGTTTGTAGTCTTGCACAAATCTGGAAGCATGGCGAGCTGTGTAACCGCTC 993
Db 309 AspLysValValCysLeuValLeuAspValSerSerLysMetAlaGluAlaAspArgLeu 328
QY 994 ATTCGATGAATCAACAGCAGCCAGCTTTTCTCTGCTGAGACAGCTTGAGTGGGGTCTCTGG 1053
Db 329 LeuGlnLeuGlnAlaAlaGluPheTyrgLeuMetGlnIleValGluIleHisThrPhe 348
QY 1054 GTTGGGATGGTGCATTTTCACATGCTGCCCATGTACAAAGTCAACTCATACAGATAAAC 1113
Db 349 ValGlyIleAlaSerPheAspSerLysGlyGluIleArgAlaGlnLeuHisGlnIleAsn 368
```







```
QY 2155 CCACCAAGACCTGAATTATTAAGGATGATTTCAACACAGCAAGTGTGTTTCAGCAGA 2214
Db ||||| : : : : : : : : : : : : : : : : : : : : : : : : : :
725 AlaProArgLysSerValGlyArgAsnGluGluArgLysTrp---GlyPheSerArg 743
QY 2215 ACATCTCGGAGGCTCATTTGTGGCTTCGTATGCCAAATGCTCCCATACATCATC 2274
Db ||||| : : : : : : : : : : : : : : : : : : : : : : : : : :
744 ValSerSerGlyGlySerPheSerValLeuGlyValProAlaGlyProHisProAspVal 763
QY 2275 TTCCCACTGGCCAAATCACCGACCTGAAGCGGAAATTCACGGGGGCAGTCTCATTAAT 2334
Db ||||| : : : : : : : : : : : : : : : : : : : : : : : : : :
764 PheProProCysLysIleIleAspLeuGluAla---ValLysValGluGluLeuThr 782
QY 2335 CTGACTTGACACGCTCCTCGGGATGATTATGACCATGGAAACAGCTCACAAGTATATCAT 2394
Db ||||| : : : : : : : : : : : : : : : : : : : : : : : : : :
783 LeuSerTrpThrAlaProGlyGluAspPheAspGlnGlyGlnAlaThrSerTyrGluIle 802
QY 2395 CGAATAAGTACAAAGTATCTTGATCTCAGAGACAACTTCAATGAATCTCTCAAGTGAAT 2454
Db ||||| : : : : : : : : : : : : : : : : : : : : : : : : : :
803 ArgMetSerLysSerLeuGlnAsnIleGlnAspPheAsnAsnAlaIleLeuValAsn 822
QY 2455 ACTACTGCTCTATCCCAAGGAGCAACTCTGAGGAAGTCTTTTGTAAACAGAA 2514
Db ||||| : : : : : : : : : : : : : : : : : : : : : : : : : :
823 ThrSerLysArgAsnProGlnGlnAlaGlyIleArgGluIlePheThrPheSerProGln 842
QY 2515 AACATTACTTTTGAAATGGCACAGAT----- 2541
Db ||||| : : : : : : : : : : : : : : : : : : : : : : : : : :
843 IleSerThr-----AsnGlyProGluHisGlnProAsnGlyGluThrHisGluSerHis 860
QY 2542 ---CTTTTCATTGCTATTTCAGGCTGTTGATAAGTCGATCTGAAATCAGAAATATCCAAC 2598
Db ||||| : : : : : : : : : : : : : : : : : : : : : : : : : :
861 ArgIleTyrValAlaIleArgAlaMetAspArgAsnSerLeuGlnSerAlaValSerAsn 880
QY 2599 ATTGCACGAGTATCTTTGTTTATTCCTCCACAGACTCCGCCAGACACCTAGTCTGAT 2658
Db ||||| : : : : : : : : : : : : : : : : : : : : : : : : : :
881 IleAlaGlnAlaProLeuPheIleProProAsnSerAspPro---ValProAlaArgAsp 899
```

Search completed: April 21, 2004, 16:44:41  
Job time : 110.952 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 24, 2004, 04:05:52 ; Search time 56.7269 Seconds  
(without alignments)

8424.829 Million cell updates/sec

Title: US-09-049-696-17

Perfect score: 106

Sequence: 1 GGCATTCACATTTAAAAAT.....AAATAAATCATTCATCCTT 106

Scoring table: IDENTITY NUC

Gapop 10\_0 , Gapext 1.0

Searched: 2907579 seqs, 2254313464 residues

Total number of hits satisfying chosen parameters: 5815158

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:\*

1: /cgn2\_6/ptodata/2/pubpna/US07\_PUBCOMB.seq:\*  
2: /cgn2\_6/ptodata/2/pubpna/PTC\_NEW\_PUB.seq:\*  
3: /cgn2\_6/ptodata/2/pubpna/US06\_NEW\_PUB.seq:\*  
4: /cgn2\_6/ptodata/2/pubpna/US06\_PUBCOMB.seq:\*  
5: /cgn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq:\*  
6: /cgn2\_6/ptodata/2/pubpna/PTCUS\_PUBCOMB.seq:\*  
7: /cgn2\_6/ptodata/2/pubpna/US08\_NEW\_PUB.seq:\*  
8: /cgn2\_6/ptodata/2/pubpna/US08\_PUBCOMB.seq:\*  
9: /cgn2\_6/ptodata/2/pubpna/US09A\_PUBCOMB.seq:\*  
10: /cgn2\_6/ptodata/2/pubpna/US09B\_PUBCOMB.seq:\*  
11: /cgn2\_6/ptodata/2/pubpna/US09C\_PUBCOMB.seq:\*  
12: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq:\*  
13: /cgn2\_6/ptodata/2/pubpna/US10A\_PUBCOMB.seq:\*  
14: /cgn2\_6/ptodata/2/pubpna/US10B\_PUBCOMB.seq:\*  
15: /cgn2\_6/ptodata/2/pubpna/US10C\_PUBCOMB.seq:\*  
16: /cgn2\_6/ptodata/2/pubpna/US10C\_NEW\_PUB.seq:\*  
17: /cgn2\_6/ptodata/2/pubpna/US10C\_NEW\_PUB.seq:\*  
18: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq:\*  
19: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	106	100.0	230	15	US-10-066-543-1621
C 2	106	100.0	376	15	US-10-066-543-22
C 3	106	100.0	411	15	US-10-060-036-2975
C 4	106	100.0	481	15	US-10-066-543-2792
C 5	106	100.0	482	15	US-10-060-036-2601
C 6	106	100.0	482	15	US-10-066-543-181
C 7	106	100.0	482	15	US-10-066-543-1737
C 8	106	100.0	482	15	US-10-066-543-1898
C 9	106	100.0	482	15	US-10-066-543-2241
C 10	106	100.0	483	15	US-10-066-543-2794
C 11	106	100.0	524	9	US-09-998-598-2534
C 12	106	100.0	1512	16	US-10-305-720-850
C 13	106	100.0	2854	15	US-10-106-698-1971
C 14	106	100.0	2867	15	US-10-106-698-351

15	106	100.0	3007	15	US-10-055-4128-27	Sequence 27, Appl
16	106	100.0	3109	15	US-10-106-698-2111	Sequence 2111, Ap
17	106	100.0	3111	9	US-09-823-356-25	Sequence 25, Appl
18	106	100.0	3111	9	US-09-981-353-191	Sequence 191, Ap
19	106	100.0	3111	15	US-10-235-994-25	Sequence 25, Appl
20	106	100.0	3267	9	US-09-764-868-22	Sequence 22, Appl
21	106	100.0	3311	9	US-09-922-217-1056	Sequence 1056, Ap
22	106	100.0	3311	9	US-09-833-263-1056	Sequence 1056, Ap
23	106	100.0	3311	14	US-10-025-380-1056	Sequence 1056, Ap
24	106	100.0	3311	15	US-10-393-590-11	Sequence 11, Appl
25	106	100.0	3311	15	US-10-393-590-12	Sequence 12, Appl
26	106	100.0	3311	15	US-10-393-590-46	Sequence 46, Appl
27	106	100.0	3311	15	US-10-393-590-47	Sequence 47, Appl
28	106	100.0	3311	15	US-10-393-567-11	Sequence 11, Appl
29	106	100.0	3311	15	US-10-393-567-12	Sequence 12, Appl
30	106	100.0	3311	15	US-10-393-567-46	Sequence 46, Appl
31	106	100.0	3311	15	US-10-393-567-47	Sequence 47, Appl
32	106	100.0	3311	15	US-10-394-087-11	Sequence 11, Appl
33	106	100.0	3311	15	US-10-394-087-12	Sequence 12, Appl
34	106	100.0	3311	15	US-10-394-087-47	Sequence 47, Appl
35	106	100.0	3311	15	US-10-066-543-1971	Sequence 1971, Ap
C 36	105	99.1	389	15	US-09-988-292-8	Sequence 8, Appl
C 37	76.8	72.5	878	13	US-10-086-543-1927	Sequence 1927, Ap
C 38	69	65.1	142	15	US-10-270-595-5	Sequence 5, Appl
C 39	63	59.4	2745	15	US-09-867-034-3	Sequence 3, Appl
C 40	63	59.4	4569	10	US-10-276-115-3	Sequence 3, Appl
C 41	63	59.4	4569	13	US-10-276-115-3	Sequence 1, Appl
C 42	47.4	44.7	2931	15	US-10-270-595-1	Sequence 1, Appl
C 43	31.2	29.4	1240	13	US-10-425-114-6384	Sequence 6384, Ap
C 44	31.2	29.4	1242	13	US-10-425-114-29440	Sequence 29440, A
C 45	31.2	29.4	1254	13	US-10-424-599-137892	Sequence 137892,

#### ALIGNMENTS

#### RESULT 1

US-10-066-543-1621/c  
; Sequence 1621, Application US/10066543  
; Publication No. US20030087818A1  
; GENERAL INFORMATION:  
; APPLICANT: Jiang, Yugu  
; APPLICANT: Pyle, Ruth A.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Indrias, Carol Yoseph  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Carter, Darrick  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Smith, Carole L.  
; APPLICANT: Durham, Margarita  
; APPLICANT: Stolk, John A.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; FILE REFERENCE: 210121.563  
; CURRENT APPLICATION NUMBER: US/10/066,543  
; NUMBER OF SEQ ID NOS: 3417  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1621  
; LENGTH: 230  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 193, 194, 225, 226  
; OTHER INFORMATION: n = A,T,C or G  
US-10-066-543-1621

Query Match 100.0%; Score 106; DB 15; Length 230;  
Best Local Similarity 100.0%; Pred. No. 1.3e-23;  
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	GGCATTCA	CAATTTT	AAAAAAT	TATGTG	GGAAGTGGATAGG	GAAC	TGCAGCTG	CAATAGCC	60
Db	179	GGCAATTC	CAATTTT	AAAAAAT	TATGTG	GGAAGTGGATAGG	GAAC	TGCAGCTG	CAATAGCC	120
Qy	61	TAGGGCTG	AAATTTT	TGTG	CAGATAA	TAAAAAT	CAATTC	ATCCCTT		106
Db	119	TAGGGCTG	AAATTTT	TGTG	CAGATAA	TAAAAAT	CAATTC	ATCCCTT		74

## RESULT 2

US-10-066-543-22/c  
; Sequence 22, Application US/10066543  
; Publication No. US20030087818A1

APPLICANT: Jiang, Yugui  
APPLICANT: Pyle, Ruth A.  
APPLICANT: Xu, Jiangchun  
APPLICANT: Indrias, Carol Yoseph  
APPLICANT: Lodes, Michael J.  
APPLICANT: Secrist, Heather  
APPLICANT: Carter, Darrick  
APPLICANT: Fanger, Gary R.  
APPLICANT: Smith, Carol L.  
APPLICANT: Durham, Margarita  
APPLICANT: Stolk, John A.  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
OF COLON CANCER  
FILE REFERENCE: 210121.563  
CURRENT APPLICATION NUMBER: US/10/066,543  
CURRENT FILING DATE: 2002-01-31  
NUMBER OF SEQ ID NOS: 3417  
SOFTWARE: FastSeq for Windows Version 4.0

Query Match	100.0%	Score 106;	DB 15;	Length 376;
Best Local Similarity	100.0%	Pred. No. 1.5e-23;		
Matches 106;	Conservative	0;	Mismatches 0;	Indels 0;
Gaps	0;			

Qy	1	GGCAATCACATTTTAAAAAATATATGTGGGAAGTGGATAGGGAAGTGGAGTGTCAATAGCC	60
Db	206	GGCAATTCACATTTTAAAAAATATATGTGGGAAGTGGATAGGGAAGTGGAGTGTCAATAGCC	147
Qy	61	TAGGGCTGAATTTTTGTGCAGATAAAATAAAATCAATTCATCCTT	106
Db	146	TAGGGCTGAAATTTTTGTGCAGATAAAATAAAATCAATTCATCCTT	101

### RESULT 3

RESULTS  
US-10-060-036-2975  
; Sequence 2975, Application US/10060036  
; Publication No. US20030073144A1

```

/ GENERAL INFORMATION:
/ APPLICANT: Benson, Darin R.
/ APPLICANT: Kalos, Michael D.
/ APPLICANT: Lodes, Michael J.
/ APPLICANT: Persing, David H.
/ APPLICANT: Hepler, William T.
/ APPLICANT: Jiang, Yugu
/ TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
/ OF:
/ TITLE OF INVENTION: AND DIAGNOSIS OF PANCREATIC CANCER
/ FILE REFERENCE: 210121.566
/ CURRENT APPLICATION NUMBER: US/10/060,036
/ CURRENT FILING DATE: 2002-01-30
/ NUMBER OF SEQ ID NOS: 4560
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 2975
/ LENGTH: 411
/ TYPE: DNA
/ ORGANISM: Homo sapiens

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US-10-060-036-2975

	Query Match	100.0%	Score 106;	DB 15;	Length 411;
	Best local Similarity	100.0%;	Pred. No. 1.6e-23;		
	Matches 106;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0
Qy	1	GGCATTACATTTTAAAAATTTATGTGGAAGTGGATAGAGAACTGCAGCTGCAATAGCC	60		
Db	233	GGCATTACATTTTAAAAATTTATGTGGAAGTGGATAGAGAACTGCAGCTGCAATAGCC	292		
Qy	61	TAGGGCTGAATTTTGTGCAGATAAATAAATAATCATTCATCCTT	106		
Db	293	TAGGGCTGAATTTTGTGCAGATAAATAAATAATCATTCATCCTT	338		

## RESULT 4

US-10-066-543-2792  
; Sequence 2792, Application US/10066543  
; Publication No. US20030087818A1

```

APPLICANT: Jiang, Xugu
APPLICANT: Pyle, Ruth A.
APPLICANT: Xu, Jiangchun
APPLICANT: Indirias, Carol Yoseph
APPLICANT: Lodes, Michael J.
APPLICANT: Secrist, Heather
APPLICANT: Carter, Darrick
APPLICANT: Fanger, Gary R.
APPLICANT: Smith, Carole L.
APPLICANT: Durham, Margarita
APPLICANT: Stolk, John A.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
FILE REFERENCE: 210121.563
CURRENT APPLICATION NUMBER: US/10/066,543
CURRENT FILING DATE: 2002-01-31
NUMBER OF SEQ ID NOS: 3417
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 2792
LENGTH: 481
TYPE: DNA
ORGANISM: Homo sapiens
US-10-066-543-2792

```

Query Match	100.0%;	Score 106;	DB 15;	Length 481;
Best Local Similarity	100.0%;	Pred. No. 1.7e+23;		
Matches 106;	Conservative	0;	Mismatches 0;	Gaps 0;
			Indels	0;

Qy 1 GGCAATTCACATTTTAAAAATTATCTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCC 60  
|||  
Db 304 GGCAATTCACATTTTAAAAATTATCTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCC 363

## RESULT 5

US-10-060-036-2601  
; Sequence 2601, Application US/10060036  
; Publication No. US20030073144A1

APPLICANT: Benson, Darin R.  
APPLICANT: Kalos, Michael D.  
APPLICANT: Lodes, Michael J.  
APPLICANT: Persing, David H.  
APPLICANT: Hepler, William T.  
APPLICANT: Jiang, Yugu  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
TITLE OF INVENTION: AND DIAGNOSIS OF PANCREATIC CANCER  
FILE REFERENCE: 210121.566  
CURRENT APPLICATION NUMBER: US/10/060,036  
CURRENT FILING DATE: 2002-01-30

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; NUMBER OF SEQ ID NOS: 4560
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2601
; LENGTH: 482
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-060-036-2601

Query Match      100.0%; Score 106; DB 15; Length 482;
Best Local Similarity 100.0%; Pred. No. 1.7e-23;
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCATTACATTTTAAATAATTATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCC 60
DB 304 GGCATTACATTTTAAATAATTATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCC 363

QY 61 TAGGGCTGAATTTTGTGCAGATAATAATAAATCAATCATCCTT 106
DB 364 TAGGGCTGAATTTTGTGCAGATAATAATAAATCAATCATCCTT 409

RESULT 6
US-10-066-543-181/c
; Sequence 181, Application US/10066543
; Publication No. US20030087818A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yugu
; APPLICANT: Pyle, Ruth A.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Indrias, Carol Yoseph
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Carter, Darrick
; APPLICANT: Fanger, Gary R.
; APPLICANT: Smith, Carole L.
; APPLICANT: Durham, Margarita
; APPLICANT: Stolk, John A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.563
; CURRENT APPLICATION NUMBER: US/10/066,543
; CURRENT FILING DATE: 2002-01-31
; NUMBER OF SEQ ID NOS: 3417
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 181
; LENGTH: 482
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-066-543-181

Query Match      100.0%; Score 106; DB 15; Length 482;
Best Local Similarity 100.0%; Pred. No. 1.7e-23;
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCATTACATTTTAAATAATTATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCC 60
DB 179 GGCATTACATTTTAAATAATTATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCC 120

QY 61 TAGGGCTGAATTTTGTGCAGATAATAATAAATCAATCATCCTT 106
DB 119 TAGGGCTGAATTTTGTGCAGATAATAATAAATCAATCATCCTT 74

RESULT 7
US-10-066-543-1737
; Sequence 1737, Application US/10066543
; Publication No. US20030087818A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yugu
; APPLICANT: Pyle, Ruth A.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Indrias, Carol Yoseph
; APPLICANT: Lodes, Michael J.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.563
; CURRENT APPLICATION NUMBER: US/10/066,543
; CURRENT FILING DATE: 2002-01-31
; NUMBER OF SEQ ID NOS: 3417
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 181
; LENGTH: 482
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-066-543-181

Query Match      100.0%; Score 106; DB 15; Length 482;
Best Local Similarity 100.0%; Pred. No. 1.7e-23;
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCATTACATTTTAAATAATTATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCC 60
DB 179 GGCATTACATTTTAAATAATTATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCC 120

QY 61 TAGGGCTGAATTTTGTGCAGATAATAATAAATCAATCATCCTT 106
DB 119 TAGGGCTGAATTTTGTGCAGATAATAATAAATCAATCATCCTT 74

RESULT 8
US-10-066-543-1898
; Sequence 1898, Application US/10066543
; Publication No. US20030087818A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yugu
; APPLICANT: Pyle, Ruth A.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Indrias, Carol Yoseph
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Carter, Darrick
; APPLICANT: Fanger, Gary R.
; APPLICANT: Smith, Carole L.
; APPLICANT: Durham, Margarita
; APPLICANT: Stolk, John A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.563
; CURRENT APPLICATION NUMBER: US/10/066,543
; CURRENT FILING DATE: 2002-01-31
; NUMBER OF SEQ ID NOS: 3417
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1898
; LENGTH: 482
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-066-543-1898

Query Match      100.0%; Score 106; DB 15; Length 482;
Best Local Similarity 100.0%; Pred. No. 1.7e-23;
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCATTACATTTTAAATAATTATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCC 60
DB 304 GGCATTACATTTTAAATAATTATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCC 363

QY 61 TAGGGCTGAATTTTGTGCAGATAATAATAAATCAATCATCCTT 106
DB 364 TAGGGCTGAATTTTGTGCAGATAATAATAAATCAATCATCCTT 409
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RESULT 9  
US-10-066-543-2241  
; Sequence 2241, Application US/10066543  
; Publication No. US20030087818A1  
; GENERAL INFORMATION:  
; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Pyle, Ruth A.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Indirias, Carol Yoseph  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Carter, Darick  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Smith, Carole L.  
; APPLICANT: Durham, Margarita  
; APPLICANT: Stolk, John A.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER  
; FILE REFERENCE: 210121.563  
; CURRENT APPLICATION NUMBER: US/10/066,543  
; CURRENT FILING DATE: 2002-01-31  
; NUMBER OF SEQ ID NOS: 3417  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2241  
; LENGTH: 482  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-066-543-2241

Query Match 100.0%; Score 106; DB 15; Length 482;  
Best Local Similarity 100.0%; Pred. No. 1.7e-23;  
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 GGCATTACATTTTAAAAAATTATGTGGAGTGGATAGGAGAACTGCAGCTGTCAATAGCC 60  
DB 304 GGCATTACATTTTAAAAAATTATGTGGAGTGGATAGGAGAACTGCAGCTGTCAATAGCC 363  
  
QY 61 TAGGGCTGAATTTTGTTCAGATAAATAAAATCAATTCATCCCTT 106  
DB 364 TAGGGCTGAATTTTGTTCAGATAAATAAAATCAATTCATCCCTT 409

RESULT 10  
US-10-066-543-2794  
; Sequence 2794, Application US/10066543  
; Publication No. US20030087818A1  
; GENERAL INFORMATION:  
; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Pyle, Ruth A.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Indirias, Carol Yoseph  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Carter, Darick  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Smith, Carole L.  
; APPLICANT: Durham, Margarita  
; APPLICANT: Stolk, John A.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER  
; FILE REFERENCE: 210121.563  
; CURRENT APPLICATION NUMBER: US/10/066,543  
; CURRENT FILING DATE: 2002-01-31  
; NUMBER OF SEQ ID NOS: 3417  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2794  
; LENGTH: 483  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-066-543-2794

Query Match 100.0%; Score 106; DB 15; Length 483;

Best Local Similarity 100.0%; Pred. No. 1.7e-23;  
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 GGCATTACATTTTAAAAAATTATGTGGAGTGGATAGGAGAACTGCAGCTGTCAATAGCC 60  
DB 304 GGCATTACATTTTAAAAAATTATGTGGAGTGGATAGGAGAACTGCAGCTGTCAATAGCC 363  
  
QY 61 TAGGGCTGAATTTTGTTCAGATAAATAAAATCAATTCATCCCTT 106  
DB 364 TAGGGCTGAATTTTGTTCAGATAAATAAAATCAATTCATCCCTT 409

RESULT 11  
US-09-998-598-2534  
; Sequence 2534, Application US/09998598  
; Patent No. US20020150922A1  
; GENERAL INFORMATION:  
; APPLICANT: Stolk, John A.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Chenault, Ruth A.  
; APPLICANT: Mesgher, Madelein Joy  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER  
; FILE REFERENCE: 210121.561  
; CURRENT APPLICATION NUMBER: US/09/998,598  
; CURRENT FILING DATE: 2001-11-16  
; NUMBER OF SEQ ID NOS: 2606  
; SOFTWARE: Corixa Invention Disclosure Database  
; SEQ ID NO 2534  
; LENGTH: 524  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-998-598-2534

Query Match 100.0%; Score 106; DB 9; Length 524;  
Best Local Similarity 100.0%; Pred. No. 1.7e-23;  
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 GGCATTACATTTTAAAAAATTATGTGGAGTGGATAGGAGAACTGCAGCTGTCAATAGCC 60  
DB 324 GGCATTACATTTTAAAAAATTATGTGGAGTGGATAGGAGAACTGCAGCTGTCAATAGCC 383  
  
QY 61 TAGGGCTGAATTTTGTTCAGATAAATAAAATCAATTCATCCCTT 106  
DB 384 TAGGGCTGAATTTTGTTCAGATAAATAAAATCAATTCATCCCTT 429

RESULT 12  
US-10-305-720-850  
; Sequence 850, Application US/10305720  
; Publication No. US20040010136A1  
; GENERAL INFORMATION:  
; APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J.  
; TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expression  
; FILE REFERENCE: PA-0002-1 CON  
; CURRENT APPLICATION NUMBER: US/10/305,720  
; CURRENT FILING DATE: 2002-11-26  
; PRIOR APPLICATION NUMBER: 09/016,434  
; PRIOR FILING DATE: 1998-01-30  
; NUMBER OF SEQ ID NOS: 1490  
; SOFTWARE: PERL Program  
; SEQ ID NO 850  
; LENGTH: 1512  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20040010136A1 608819  
US-10-305-720-850

Query Match 100.0%; Score 106; DB 16; Length 1512;  
Best Local Similarity 100.0%; Pred. No. 2.7e-23;  
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query Match	100.0%;	Score 106;	DB 15;	Length 2867;
Best Local Similarity	100.0%;	Pred. No. 3.5e-23;		

	Query Match	100.0%;	Score 106;	DB 15;	Length 3007;
	Best Local Similarity	100.0%;	Pred. No. 3.5e-23;		
	Matches 106;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	GGCATTTCACATTTTAAAAATTATGTGGAAGTGATAGGAGAACTGCAGCTGTCAATAGCC	60		
Db	2729	GGCATTTCACATTTTAAAAATTATGTGGAAGTGATAGGAGAACTGCAGCTGTCAATAGCC	2788		
QY	61	TAGGGCTGGAATTTTTCAGATAAAATAAATCAATTCATCCTT	106		
Db	2789	TAGGGCTGGAATTTTTCAGATAAAATAAATCAATTCATCCTT	2834		

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Job time : 57.7269 secs



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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 24, 2004, 00:33:00 ; Search time 9.74354 Seconds  
(without alignments)  
6037.311 Million cell updates/sec

Title: US-09-049-696-17

Perfect score: 106

Sequence: 1 GGCATTCATTTTAAAAAT.....AAATAAATCATTCATCCTT 106

Scoring table: IDENTITY NUC

Gapop 10\_0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents NA.\*

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6: /cgn2\_6/ptodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	106	100.0	1512	4	US-09-016-434-850
2	106	100.0	3007	4	US-09-193-562D-27
3	76.8	72.5	878	1	US-08-469-667-8
4	76.8	72.5	878	4	US-09-224-110-8
5	76.8	72.5	878	5	PCT-US95-07289-8
6	63	59.4	2745	4	US-09-623-624-5
7	47.4	44.7	2931	4	US-09-623-624-1
8	33.2	31.3	2520	2	US-08-454-557C-50
9	33.2	31.3	2520	2	US-08-340-426D-50
10	33.2	31.3	2520	2	US-08-450-673C-50
11	33.2	31.3	2520	5	PCT-US95-17111A-50
12	29.4	27.7	642	4	US-09-543-681A-631
13	29.2	27.5	1743	4	US-09-328-352-3530
14	28.8	27.2	486	4	US-09-134-001C-1159
15	28.2	26.6	537	4	US-09-328-352-273
16	28	26.4	2293	3	US-09-125-287-5
17	28	26.4	6735	4	US-08-961-527-104
18	28	26.4	12839	3	US-09-125-287-1
19	27.4	25.8	1123	1	US-08-700-626-2
20	27.4	25.8	1887	3	US-09-201-641-5
21	27	25.5	13865	3	US-09-009-217-11
22	27	25.5	13865	3	US-09-009-656-11
23	26.6	25.1	2676	4	US-08-976-259-12
24	26.4	24.9	1664976	4	US-08-916-421B-1
25	26.2	24.7	161652	4	US-09-497-858A-40
26	26	24.5	19250	4	US-08-961-527-35
27	25.8	24.3	58407	4	US-08-916-421B-2

28	25.8	24.3	1664976	4	US-08-916-421B-1	Sequence 1, Appli
29	25.6	24.2	1524	4	US-09-540-236-1471	Sequence 1471, Ap
30	25.6	24.2	1529	3	US-09-189-760-5	Sequence 5, Appli
31	25.6	24.2	1529	3	US-09-188-811-5	Sequence 5, Appli
32	25.6	24.2	1529	3	US-09-514-422-5	Sequence 5, Appli
33	25.6	24.2	2196	4	US-09-134-000C-950	Sequence 950, App
34	25.6	24.2	2327	4	US-09-149-476-107	Sequence 107, App
35	25.6	24.2	2404	1	US-08-311-023-3	Sequence 2, Appli
36	25.6	24.2	7860	4	US-09-526-193A-2	Sequence 21, Appli
37	25.6	24.2	20284	4	US-09-526-193A-21	Sequence 21, Appli
38	25.4	24.0	5632	3	US-09-560-594-3	Sequence 3, Appli
39	25.4	24.0	202001	4	US-09-734-674-3	Sequence 3, Appli
40	25.4	24.0	1830121	4	US-09-557-884-1	Sequence 1, Appli
41	25.4	24.0	1830121	4	US-09-643-990A-1	Sequence 812, App
42	25.2	23.8	662	3	US-08-998-416-812	Sequence 324, App
43	25.2	23.8	746	4	US-09-328-475C-324	Sequence 2280, Ap
44	25.2	23.8	1590	4	US-09-328-352-2280	Sequence 2957, Ap
45	25.2	23.8	2196	4	US-09-543-681A-2957	

#### ALIGNMENTS

#### RESULT 1

US-09-016-434-850  
; Sequence 850, Application US/09016434  
; Patent No. 6500938  
; GENERAL INFORMATION:  
; APPLICANT: Janice Au-Young  
; APPLICANT: Jeffrey J. Seilhamer  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
; NUMBER OF SEQUENCES: 1490  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/016,434  
FILING DATE: HEREWITH  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Zeller, Karen J.  
REGISTRATION NUMBER: 37,071  
REFERENCE/DOCKET NUMBER: PA-0002 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (650) 855-0555  
TELEFAX: (650) 845-4166  
INFORMATION FOR SEQ ID NO: 850:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1512 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: COLN00101  
CLONE: 608819  
US-09-016-434-850

Query Match 100.0%; Score 106; DB 4; Length 1512;  
Best Local Similarity 100.0%; Pred. No. 1.2e-26;

Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GGCATTTCACATTTTAAAAAATTATGTGGAGTAGGAGAACTGCAGCTGTCAATAGCC 60  
DB 1407 GGCATTTCACATTTTAAAAAATTATGTGGAGTAGGAGAACTGCAGCTGTCAATAGCC 1466  
QY 61 TAGGGCTGAATTTTGTGCAGATAAATAAATAATCAATTCATCCTT 106  
DB 1467 TAGGGCTGAATTTTGTGCAGATAAATAAATAATCAATTCATCCTT 1512

## RESULT 2

US-09-193-562D-27  
; Sequence 27, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Paull, Benedict U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 27  
; LENGTH: 3007  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-193-562D-27

Query Match 100.0%; Score 106; DB 4; Length 3007;  
Best Local Similarity 100.0%; Pred. No. 1.5e-26;  
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GGCATTTCACATTTTAAAAAATTATGTGGAGTAGGAGAACTGCAGCTGTCAATAGCC 60  
DB 2729 GGCATTTCACATTTTAAAAAATTATGTGGAGTAGGAGAACTGCAGCTGTCAATAGCC 2788  
QY 61 TAGGGCTGAATTTTGTGCAGATAAATAAATAATCAATTCATCCTT 106  
DB 2789 TAGGGCTGAATTTTGTGCAGATAAATAAATAATCAATTCATCCTT 2834

## RESULT 3

US-08-469-667-8  
; Sequence 8, Application US/08469667  
; Patent No. 5733748  
; GENERAL INFORMATION:  
; APPLICANT: Yu, Guo-Liang  
; APPLICANT: Rosen, Craig  
; TITLE OF INVENTION: Colon Specific Genes and Proteins  
; NUMBER OF SEQUENCES: 24  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,  
; ADDRESSEE: Stewart & Olstein  
; STREET: 6 Becker Farm Road  
; CITY: Roseland  
; STATE: NJ  
; COUNTRY: USA  
; ZIP: 07068-1739  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/469,667  
; FILING DATE: 06-JUN-1995  
; CLASSIFICATION: 536  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Ferraro, Gregory D.  
; REGISTRATION NUMBER: 36,134

; REFERENCE/DOCKET NUMBER: 325800-435  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 201-994-1700  
; TELEFAX: 201-994-1744  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 878 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 2..685  
US-08-469-667-8

Query Match 72.5%; Score 76.8; DB 1; Length 878;  
Best Local Similarity 91.0%; Pred. No. 7.9e-17;  
Matches 81; Conservative 0; Mismatches 8; Indels 0; Gaps 0;  
QY 1 GGCATTTCACATTTTAAAAAATTATGTGGAGTAGGAGAACTGCAGCTGTCAATAGCC 60  
DB 717 GGCATTTCACATTTTAAAAAATTATGTGGAGTAGGAGAACTGCAGCTGTCAATAGCC 776  
QY 61 TAGGGCTGAATTTTGTGCAGATAAATAA 89  
DB 777 TAGGGCTGAATTTTGTGCAGATAAATAA 805

## RESULT 4

US-09-224-110-8  
; Sequence 8, Application US/09224110  
; Patent No. 6337195  
; GENERAL INFORMATION:  
; APPLICANT: Yu, Guo-Liang  
; APPLICANT: Rosen, Craig  
; TITLE OF INVENTION: Colon Specific Genes and Proteins  
; NUMBER OF SEQUENCES: 24  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,  
; ADDRESSEE: Stewart & Olstein  
; STREET: 6 Becker Farm Road  
; CITY: Roseland  
; STATE: NJ  
; COUNTRY: USA  
; ZIP: 07068-1739  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/224,110  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/469,667  
; FILING DATE: 06-JUN-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Ferraro, Gregory D.  
; REGISTRATION NUMBER: 36,134  
; REFERENCE/DOCKET NUMBER: 325800-435  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 201-994-1700  
; TELEFAX: 201-994-1744  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 878 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; FEATURE:

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; NAME/KEY: CDS
; LOCATION: 2..685
US-09-224-110-8

Query Match      72.5%; Score 76.8; DB 4; Length 878;
Best Local Similarity 91.0%; Pred. No. 7.9e-17;
Matches 81; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 GGCATTTCACATTTTAAAAAATTATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCC 60
DB 717 GGCATTTCACATTTTAAAAAATTATGTGGAAGTGGTGGAGAACTGCAGTTGTCAATAGNC 776

QY 61 TAGGGCTGAATTTTGTTCAGATAATAA 89
DB 777 TAGGGGTGAATTTTGTGCGGTGAATAA 805

RESULT 5
PCT-US95-07289-8
; Sequence 8, Application PC/TUS9507289
; GENERAL INFORMATION:
; APPLICANT: Yu, Guo-Liang
; APPLICANT: Rosen, Craig
; TITLE OF INVENTION: Colon Specific Genes and Proteins
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Carella, Byrne, Bain, Gilfillan, Cecchi,
; ADDRESSER: Stewart & Olstein
; STREET: 6 Becker Farm Road
; CITY: Roseland
; STATE: NJ
; COUNTRY: USA
; ZIP: 07068-1739
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/07289
; FILING DATE: 06-JUN-1995
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Ferraro, Gregory D.
; REGISTRATION NUMBER: 36,134
; REFERENCE/DOCKET NUMBER: 325800-265
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-994-1700
; TELEFAX: 201-994-1744
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 878 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 2..685
PCT-US95-07289-8

Query Match      72.5%; Score 76.8; DB 5; Length 878;
Best Local Similarity 91.0%; Pred. No. 7.9e-17;
Matches 81; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 GGCATTTCACATTTTAAAAAATTATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCC 60
DB 717 GGCATTTCACATTTTAAAAAATTATGTGGAAGTGGTGGAGAACTGCAGTTGTCAATAGNC 776

QY 61 TAGGGCTGAATTTTGTTCAGATAATAA 89
DB 777 TAGGGGTGAATTTTGTGCGGTGAATAA 805
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RESULT 6
US-09-623-624-5
; Sequence 5, Application US/09623624
; Patent No. 6576434
; GENERAL INFORMATION:
; APPLICANT: Magainin Pharmaceuticals, Inc.
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/09/623,624
; CURRENT FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,110
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,168
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/980,872
; PRIOR FILING DATE: 1997-12-01
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 5
; LENGTH: 2745
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(2742)
US-09-623-624-5

Query Match      59.4%; Score 63; DB 4; Length 2745;
Best Local Similarity 100.0%; Pred. No. 5.5e-12;
Matches 63; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCATTTCACATTTTAAAAAATTATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCC 60
DB 2683 GGCATTTCACATTTTAAAAAATTATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCC 2742

QY 61 TAG 63
DB 2743 TAG 2745

RESULT 7
US-09-623-624-1
; Sequence 1, Application US/09623624
; Patent No. 6576434
; GENERAL INFORMATION:
; APPLICANT: Magainin Pharmaceuticals, Inc.
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/09/623,624
; CURRENT FILING DATE: 2000-09-06
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; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,110
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,168
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/980,872
; PRIOR FILING DATE: 1997-12-01
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 2931
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (8)..(2746)
US-09-623-624-1

Query Match      44.7%; Score 47.4; DB 4; Length 2931;
Best Local Similarity 70.8%; Pred. No. 1.1e-06;
Matches 63; Conservative 0; Mismatches 26; Indels 0; Gaps 0;

QY 1 GGCATTACATTTTAAATATGTGGAGTGATAGGAGAACTGCAGCTGTCAATAGCC 60
DB 2681 GGCATCCACGTCCTGAAGATATGTGGAGTGCTAGGGGAAATCAGGTGACACTAGGT 2740

QY 61 TAGGCTGAATTTTGTGCAGATAATAAA 89
DB 2741 TTGCATGAATTTTCAGGCACAGAAATCAA 2769

RESULT 8
US-08-454-557C-50/c
; Sequence 50, Application US/08454557C
; Patent No. 5830670
; GENERAL INFORMATION:
; APPLICANT: de la Monte, Suzanne
; TITLE OF INVENTION: Neural Thread Protein Gene Expression and Detection
; NUMBER OF SEQUENCES: 121
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
; STREET: 1100 New York Avenue, Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/340,426D
; FILING DATE: 14-NOV-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Ludwig, Steven R.
; REGISTRATION NUMBER: 36,203
; REFERENCE/DOCKET NUMBER: 0609.3840002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 371-2600
; TELEFAX: (202) 371-2540
; INFORMATION FOR SEQ ID NO: 50:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2520 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: both
US-08-454-557C-50

Query Match      31.3%; Score 33.2; DB 2; Length 2520;
Best Local Similarity 57.8%; Pred. No. 0.066;
Matches 59; Conservative 0; Mismatches 43; Indels 0; Gaps 0;

QY 2 GCATTACATTTTAAATATGTGGAGTGATAGGAGAACTGCAGCTGTCAATAGCCT 61
DB 2412 GAACACATGCTTTAAATATGCATGGAGAGGGGTGAATTACCTCAACAAGCTA 2353

QY 62 AGGCTGAATTTTGTGCAGATAATAATAAATCAATCATC 103
DB 2352 AAAAAGAATCCTTGATTGATTAAATACACAAAGCATGAATC 2311

RESULT 9
US-08-340-426D-50/c
; Sequence 50, Application US/08340426D
; Patent No. 5948634
; GENERAL INFORMATION:
; APPLICANT: de la Monte, Suzanne
; TITLE OF INVENTION: Neural Thread Protein Gene Expression and Detection
; NUMBER OF SEQUENCES: 121
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
; STREET: 1100 New York Avenue, Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/340,426D
; FILING DATE: 14-NOV-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Ludwig, Steven R.
; REGISTRATION NUMBER: 36,203
; REFERENCE/DOCKET NUMBER: 0609.3840002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 371-2600
; TELEFAX: (202) 371-2540
; INFORMATION FOR SEQ ID NO: 50:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2520 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: both
US-08-340-426D-50

Query Match      31.3%; Score 33.2; DB 2; Length 2520;
Best Local Similarity 57.8%; Pred. No. 0.066;
Matches 59; Conservative 0; Mismatches 43; Indels 0; Gaps 0;
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Qy 64 GGCTGAATTTTGTGCAGATAATAATAATAATCAT 98  
Db 182 CATGTTGATTAATCTGTTCCCACTAAATTAATAT 148

RESULT 13  
US-09-328-352-3530/c  
; Sequence 3530, Application US/09328352  
; Patent No. 6562958  
; GENERAL INFORMATION:  
; APPLICANT: Gary L. Breton et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
; FILE REFERENCE: GTC99-03PA  
; CURRENT APPLICATION NUMBER: US/09/328,352  
; CURRENT FILING DATE: 1999-06-04  
; NUMBER OF SEQ ID NOS: 8252  
; SEQ ID NO 3530  
; LENGTH: 1743  
; TYPE: DNA  
; ORGANISM: Acinetobacter baumannii  
US-09-328-352-3530

Query Match 27.5%; Score 29.2; DB 4; Length 1743;  
Best Local Similarity 57.8%; Pred. No. 1.3;  
Matches 52; Conservative 0; Mismatches 38; Indels 0; Gaps 0;  
Qy 10 ATTTTAAAAATTTATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCCTAGGGCTGA 69  
Db 1257 ATTTAGTCAAGCATATGCAATTTTGAAGATGATTGGATCTTCCTTTGATATTTGGCAA 1198  
Qy 70 ATTTTGTGCAGATAATAATAATCAATCATT 99  
Db 1197 CTCCTTTTCAGTTAAAGAAAGAAATATCTTT 1168

RESULT 14  
US-09-134-001C-1159  
; Sequence 1159, Application US/09134001C  
; Patent No. 6380370  
; GENERAL INFORMATION:  
; APPLICANT: Lynn Doucette-Stamm et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS  
; FILE REFERENCE: GTC-007  
; CURRENT APPLICATION NUMBER: US/09/134,001C  
; CURRENT FILING DATE: 1998-08-13  
; PRIOR APPLICATION NUMBER: US 60/064,964  
; PRIOR FILING DATE: 1997-11-08  
; PRIOR APPLICATION NUMBER: US 60/055,779  
; PRIOR FILING DATE: 1997-08-14  
; NUMBER OF SEQ ID NOS: 5674  
; SEQ ID NO 1159  
; LENGTH: 486  
; TYPE: DNA  
; ORGANISM: Staphylococcus epidermidis  
US-09-134-001C-1159

Query Match 27.2%; Score 28.8; DB 4; Length 486;  
Best Local Similarity 58.0%; Pred. No. 1.2;  
Matches 51; Conservative 0; Mismatches 37; Indels 0; Gaps 0;  
Qy 12 TTTAAAAATTTATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCCTAGGGCTGAAT 71  
Db 361 TTATAGAAATGTTCAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 420  
Qy 72 TTTTGTGCAGATAATAATAATCAATCATT 99  
Db 421 CTTTATGACATGATTAAATAAAGTCTT 448

RESULT 15  
US-09-328-352-273  
; Sequence 273, Application US/09328352  
; Patent No. 6562958  
; GENERAL INFORMATION:  
; APPLICANT: Gary L. Breton et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
; FILE REFERENCE: GTC99-03PA  
; CURRENT APPLICATION NUMBER: US/09/328,352  
; CURRENT FILING DATE: 1999-06-04  
; NUMBER OF SEQ ID NOS: 8252  
; SEQ ID NO 273  
; LENGTH: 537  
; TYPE: DNA  
; ORGANISM: Acinetobacter baumannii  
US-09-328-352-273

Query Match 26.6%; Score 28.2; DB 4; Length 537;  
Best Local Similarity 59.3%; Pred. No. 2;  
Matches 48; Conservative 0; Mismatches 33; Indels 0; Gaps 0;  
Qy 14 TAAAAATTTATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCCTAGGGCTGAATTT 73  
Db 453 TATTGATAATGTGTTAGCTGATCTTAAACAGGCATGTGAATTAGCGGTAGAAAAAGATTTT 512  
Qy 74 TTGTGCAGATAATAATAATAATAA 94  
Db 513 TTGCAGATCAATAATAACTAA 533

Search completed: April 24, 2004, 05:01:15  
Job time : 12.7435 secs



GenCore version 5.1.6  
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OM nucleic - protein search, using frame\_plus\_n2p model

Run on: April 21, 2004, 16:13:49 ; Search time 15.2609 Seconds

(without alignments)  
3840.718 Million cell updates/sec

Title: US-09-049-696-17

Perfect score: 181

Sequence: 1 GGCATTCACATTAAAAAT.....AAATAAATCATTCATCCTT 106

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Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 1133595 seqs, 276475211 residues

Total number of hits satisfying chosen parameters: 2267190

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-FCGAPOP=6 -FCGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Published Applications AA:

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18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pcp.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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#### ALIGNMENTS

##### RESULT 1

US-10-106-698-4628  
; Sequence 4628, Application US/10106698  
; Publication No. US20030109690A1

; GENERAL INFORMATION:

; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 4628  
; LENGTH: 552  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; US-10-106-698-4628

1	107	59.1	552	14	US-10-106-698-4628	Sequence 4628, Ap
2	107	59.1	869	14	US-10-106-698-4628	Sequence 6388, Ap
3	107	59.1	914	9	US-09-823-356-8	Sequence 8, Appli
4	107	59.1	914	9	US-09-823-356-8	Sequence 1066, Ap
5	107	59.1	914	9	US-09-833-263-1066	Sequence 1066, Ap
6	107	59.1	914	9	US-09-833-263-1066	Sequence 192, App
7	107	59.1	914	11	US-09-833-245-2054	Sequence 2054, Ap
8	107	59.1	914	13	US-10-023-380-1066	Sequence 1066, Ap
9	107	59.1	914	14	US-10-055-412B-28	Sequence 28, Appli
10	107	59.1	914	14	US-10-270-595-6	Sequence 6, Appli
11	107	59.1	914	14	US-10-235-994-26	Sequence 26, Appli
12	107	59.1	914	14	US-10-060-255-42	Sequence 42, Appli
13	107	59.1	914	15	US-10-369-214-133	Sequence 133, App
14	107	59.1	925	9	US-09-764-868-635	Sequence 635, App
15	107	59.1	925	14	US-10-106-698-6248	Sequence 6248, Ap
16	90	49.7	913	14	US-10-270-595-2	Sequence 2, Appli
17	90	49.7	913	15	US-10-369-214-132	Sequence 132, App
18	57	31.5	310	14	US-10-023-597-84	Sequence 84, Appli
19	56	30.9	587	15	US-10-108-260A-3807	Sequence 3807, Ap
20	53	29.3	419	12	US-10-282-122A-56317	Sequence 56317, A
21	52	28.7	301	14	US-10-001-469-2881	Sequence 2881, Ap
22	52	28.7	419	12	US-10-282-122A-43266	Sequence 43266, A
23	52	28.7	508	15	US-10-369-493-3140	Sequence 3140, Ap
24	52	28.7	802	12	US-10-282-122A-60756	Sequence 60756, A
25	51	28.2	419	12	US-10-282-122A-76039	Sequence 76039, A
26	51	28.2	1924	9	US-09-866-557A-2	Sequence 2, Appli
27	51	28.2	1924	11	US-09-858-862-2	Sequence 2, Appli
28	51	28.2	1924	14	US-10-055-797-2	Sequence 2, Appli
29	50.5	27.9	339	12	US-10-424-599-199396	Sequence 199396,
30	50.5	27.9	792	13	US-10-055-364-42	Sequence 42, Appli
31	49	27.1	170	12	US-10-424-599-182434	Sequence 182434,
32	49	27.1	237	9	US-09-828-644-109	Sequence 109, App
33	49	27.1	298	14	US-10-023-597-30	Sequence 30, Appli
34	49	27.1	298	14	US-10-023-597-32	Sequence 32, Appli
35	49	27.1	298	15	US-10-292-798-168	Sequence 168, App
36	49	27.1	311	10	US-09-779-679-60	Sequence 60, Appli
37	49	27.1	338	9	US-09-886-055-467	Sequence 467, App
38	49	27.1	338	10	US-09-804-291-467	Sequence 467, App
39	49	27.1	338	14	US-10-017-161-192	Sequence 192, App
40	49	27.1	569	15	US-10-369-493-4196	Sequence 4196, Ap
41	49	27.1	1235	12	US-10-282-122A-60959	Sequence 60959, A
42	49	27.1	1579	9	US-09-801-368-368	Sequence 368, App
43	49	27.1	1579	15	US-10-369-493-2000	Sequence 2000, Ap
44	48	26.5	261	13	US-10-047-260-6	Sequence 6, Appli
45	47.5	26.4	170	12	US-10-424-599-147527	Sequence 147527,

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Pred. No.: 2,1e-07 Length: 552
Score: 107.00 Matches: 20
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 59.12% Indels: 0
DB: 14 Gaps: 0

US-09-049-696-17 (1-106) x US-10-106-698-4628 (1-552)

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DB 533 GlyIleHisIleLeuLysIleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 552

RESULT 2
US-10-106-698-6388
; Sequence 6388, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
; FILE REFERENCE: PA005PI
; CURRENT APPLICATION NUMBER: US/10106,698
; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 6388
; LENGTH: 869
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: MISC FEATURE
; LOCATION: (14)-
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-10-106-698-6388

Alignment Scores:
Pred. No.: 2,16e-07 Length: 869
Score: 107.00 Matches: 20
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 59.12% Indels: 0
DB: 14 Gaps: 0

US-09-049-696-17 (1-106) x US-10-106-698-6388 (1-869)

QY 1 GGCATTTCACATTTTAAAAATTATGTGGAGTAGGAGAACTGCAGCTGTCAATAGCC 60
|||||
DB 850 GlyIleHisIleLeuLysIleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 869

RESULT 3
US-09-823-356-8
; Sequence 8, Application US/09823356
; Patent No. US20010025098A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Bandman, Olga
; APPLICANT: Lal, Preeti
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Yue, Henry
; APPLICANT: Corley, Neil C.
; APPLICANT: Guebler, Karl J.
; APPLICANT: Kaser, Matthew R.
; APPLICANT: Baughn, Mariah R.
; APPLICANT: Shah, Purvi
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS
; FILE REFERENCE: PF-0489-1 CON
```

```
; CURRENT APPLICATION NUMBER: US/09/823,356
; CURRENT FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/039,307
; PRIOR FILING DATE: 1998 March 13
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PERL Program
; SEQ ID NO 8
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775
US-09-823-356-8

Alignment Scores:
Pred. No.: 2,17e-07 Length: 914
Score: 107.00 Matches: 20
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 59.12% Indels: 0
DB: 9 Gaps: 0

US-09-049-696-17 (1-106) x US-09-823-356-8 (1-914)

QY 1 GGCATTTCACATTTTAAAAATTATGTGGAGTAGGAGAACTGCAGCTGTCAATAGCC 60
|||||
DB 895 GlyIleHisIleLeuLysIleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914

RESULT 4
US-09-922-217-1066
; Sequence 1066, Application US/09922217
; Patent No. US20020076414A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yudi
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; CURRENT FILING DATE: 2001-08-03
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1066
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-922-217-1066

Alignment Scores:
Pred. No.: 2,17e-07 Length: 914
Score: 107.00 Matches: 20
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 59.12% Indels: 0
DB: 9 Gaps: 0

US-09-049-696-17 (1-106) x US-09-922-217-1066 (1-914)

QY 1 GGCATTTCACATTTTAAAAATTATGTGGAGTAGGAGAACTGCAGCTGTCAATAGCC 60
|||||
DB 895 GlyIleHisIleLeuLysIleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914
```

## RESULT 5

US-09-833-263-1066  
; Sequence 1066, Application US/09833263  
; Patent No. US20020110547A1  
; GENERAL INFORMATION:

; APPLICANT: Wang, Aijun

; APPLICANT: Clapper, Jonathan D.

; APPLICANT: Stolk, John A.

; APPLICANT: Meagher, Madeleine J.

; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND

; FILE REFERENCE: 210121.471C12

; CURRENT APPLICATION NUMBER: US/09/833,263

; CURRENT FILING DATE: 2001-04-10

; NUMBER OF SEQ ID NOS: 1093

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 1066

; LENGTH: 914

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-833-263-1066

Alignment Scores:

Pred. No.:	2.17e-07	Length:	914
Score:	107.00	Matches:	20
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	59.12%	Indels:	0
DB:	9	Gaps:	0

US-09-049-696-17 (1-106) x US-09-833-263-1066 (1-914)

Qy 1 GGCATTCACTTTTAAAAATTATGTGGAAGTGGATAGGAACTGCAGCTGTCAATAGCC 60

Db 895 GlylleHisleuLysleuMettrpysTrpIleGlyGluLeuGlnLeuSerlleala 914

## RESULT 6

US-09-981-353-192

; Sequence 192, Application US/09981353

; Patent No. US20020160382A1

; GENERAL INFORMATION:

; APPLICANT: Lasek, Amy W.

; APPLICANT: Jones, David A.

; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER

; FILE REFERENCE: PA-0038 US

; CURRENT APPLICATION NUMBER: US/09/981,353

; CURRENT FILING DATE: 2001-10-11

; NUMBER OF SEQ ID NOS: 194

; SOFTWARE: PERL Program

; SEQ ID NO 192

; LENGTH: 914

; TYPE: PRT

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: misc\_feature

; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CD1

US-09-981-353-192

Alignment Scores:

Pred. No.:	2.17e-07	Length:	914
Score:	107.00	Matches:	20
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	59.12%	Indels:	0
DB:	9	Gaps:	0

US-09-049-696-17 (1-106) x US-09-981-353-192 (1-914)

Qy 1 GGCATTCACTTTTAAAAATTATGTGGAAGTGGATAGGAACTGCAGCTGTCAATAGCC 60

Db 895 GlylleHisleuLysleuMettrpysTrpIleGlyGluLeuGlnLeuSerlleala 914

## RESULT 7

US-09-833-245-2054

; Sequence 2054, Application US/09833245

; Publication No. US20040010134A1

; GENERAL INFORMATION:

; APPLICANT: Human Genome Sciences, Inc.

; TITLE OF INVENTION: Albumin Fusion Proteins

; FILE REFERENCE: PFS46PCT

; CURRENT APPLICATION NUMBER: US/09/833,245

; PRIOR FILING DATE: 2001-04-12

; PRIOR APPLICATION NUMBER: 60/229,358

; PRIOR FILING DATE: 2000-04-12

; PRIOR APPLICATION NUMBER: 60/256,931

; PRIOR FILING DATE: 2000-12-21

; PRIOR APPLICATION NUMBER: 60/199,384

; NUMBER OF SEQ ID NOS: 2267

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 2054

; LENGTH: 914

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-025-380-1066

Alignment Scores:

Pred. No.:	2.17e-07	Length:	914
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Score: 107.00 Matches: 20  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 59.12% Indels: 0  
DB: 13 Gaps: 0

US-09-049-696-17 (1-106) x US-10-025-380-1066 (1-914)

QY 1 GGCATTACATTTTAAATAATTATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCC 60  
|||||  
DB 895 GlyIleHisIleLeuLysIleMetTrpLysTrpIleGlyLeuLeuGlnLeuSerIleAla 914

## RESULT 9

US-10-055-412B-28

; Sequence 28, Application US/10055412B

; Publication No. US20030059861A1

; GENERAL INFORMATION:

; APPLICANT: Pauli, Benedict U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

; FILE REFERENCE: 18617.0058

; CURRENT APPLICATION NUMBER: US/10/055,412B

; PRIOR FILING DATE: 2001-10-29

; PRIOR APPLICATION NUMBER: US/09/193,562

; PRIOR FILING DATE: 1998-11-17

; PRIOR APPLICATION NUMBER: US/60/065,922

; PRIOR FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 28

; LENGTH: 914

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-055-412B-28

## Alignment Scores:

Pred. No.: 2.17e-07 Length: 914  
Score: 107.00 Matches: 20  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 59.12% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-17 (1-106) x US-10-055-412B-28 (1-914)

QY 1 GGCATTACATTTTAAATAATTATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCC 60  
|||||  
DB 895 GlyIleHisIleLeuLysIleMetTrpLysTrpIleGlyLeuLeuGlnLeuSerIleAla 914

## RESULT 10

US-10-055-412B-28

; Sequence 6, Application US/10270595

; Publication No. US20030078409A1

; GENERAL INFORMATION:

; APPLICANT: Magainin Pharmaceuticals, Inc.

; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating

; FILE REFERENCE: 36870-5073-WO

; CURRENT APPLICATION NUMBER: US/10/270,595

; PRIOR FILING DATE: 2002-10-16

; PRIOR APPLICATION NUMBER: US/09/623,624

; PRIOR FILING DATE: 2000-09-06

; PRIOR APPLICATION NUMBER: PCT/US99/04703

; PRIOR FILING DATE: 1999-03-03

; PRIOR APPLICATION NUMBER: US 08/697,360

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,419

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,440

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,471

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,471

; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-270-595-6

## Alignment Scores:

Pred. No.: 2.17e-07 Length: 914  
Score: 107.00 Matches: 20  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 59.12% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-17 (1-106) x US-10-270-595-6 (1-914)

QY 1 GGCATTACATTTTAAATAATTATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCC 60  
|||||  
DB 895 GlyIleHisIleLeuLysIleMetTrpLysTrpIleGlyLeuLeuGlnLeuSerIleAla 914

## RESULT 11

US-10-235-994-26

; Sequence 26, Application US/10235994

; Publication No. US20030101002A1

; GENERAL INFORMATION:

; APPLICANT: Bartha, Gabor

; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS

; FILE REFERENCE: ICVTP012

; CURRENT APPLICATION NUMBER: US/10/235,994

; PRIOR FILING DATE: 2002-09-04

; PRIOR APPLICATION NUMBER: US/10/003,608

; PRIOR FILING DATE: 2001-11-01

; PRIOR APPLICATION NUMBER: 60/245,081

; PRIOR FILING DATE: 2000-11-01

; NUMBER OF SEQ ID NOS: 30

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 26

; LENGTH: 914

; TYPE: PRT

; ORGANISM: Human

US-10-235-994-26

## Alignment Scores:

Pred. No.: 2.17e-07 Length: 914  
Score: 107.00 Matches: 20  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 59.12% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-17 (1-106) x US-10-235-994-26 (1-914)

QY 1 GGCATTACATTTTAAATAATTATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCC 60  
|||||  
DB 895 GlyIleHisIleLeuLysIleMetTrpLysTrpIleGlyLeuLeuGlnLeuSerIleAla 914

## RESULT 12

US-10-060-255-42

; Sequence 42, Application US/10060255

; Publication No. US20030113840A1

; GENERAL INFORMATION:

; APPLICANT: Rosen et al.

; TITLE OF INVENTION: 25 Human secreted proteins  
; FILE REFERENCE: P2042PI  
; CURRENT APPLICATION NUMBER: US/10/060,255  
; CURRENT FILING DATE: 2002-02-01  
; PRIOR APPLICATION NUMBER: 09/781,417  
; PRIOR FILING DATE: 2001-02-13  
; PRIOR APPLICATION NUMBER: PCT/US00/22325  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: 60/149,182  
; PRIOR FILING DATE: 1999-08-17  
; NUMBER OF SEQ ID NOS: 86  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 42  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-060-255-42

Alignment Scores:  
Pred. No.: 2,17e-07 Length: 914  
Score: 107.00 Matches: 20  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 59.12% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-17 (1-106) x US-10-060-255-42 (1-914)

QY 1 GCATTACATTTTAAATAATTGTGGAAGTGGATAGGAACTGCAGCTGTCAATAGCC 60  
|||||  
Db 895 GlylleHisIleuLysIleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914

RESULT 13

US-10-369-214-133  
; Sequence 133, Application US/10369214  
; Publication No. US2003023037A1  
; GENERAL INFORMATION:  
; APPLICANT: Groot, Pieter C.  
; APPLICANT: Berghenhegouwen van, Bram J.  
; APPLICANT: Oosterhout van, Antoon J.M.  
; TITLE OF INVENTION: Genes involved in immune related responses observed  
; TITLE OF INVENTION: with asthma  
; FILE REFERENCE: P53837US00  
; CURRENT APPLICATION NUMBER: US/10/369,214  
; CURRENT FILING DATE: 2003-02-15  
; PRIOR APPLICATION NUMBER: EP 00202867.8  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: PCT/NL01/00610  
; PRIOR FILING DATE: 2001-08-16  
; NUMBER OF SEQ ID NOS: 139  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 133  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (1)..(914)  
; OTHER INFORMATION: /note="Human CLCA1"  
US-10-369-214-133

Alignment Scores:  
Pred. No.: 2,17e-07 Length: 914  
Score: 107.00 Matches: 20  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 59.12% Indels: 0  
DB: 15 Gaps: 0

US-09-049-696-17 (1-106) x US-10-369-214-133 (1-914)

QY 1 GCATTACATTTTAAATAATTGTGGAAGTGGATAGGAACTGCAGCTGTCAATAGCC 60  
|||||  
Db 895 GlylleHisIleuLysIleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914

Db 895 GlylleHisIleuLysIleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914  
RESULT 14  
US-09-764-868-635  
; Sequence 635, Application US/09764868  
; Patent No: US20020168711A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PT232  
; CURRENT APPLICATION NUMBER: US/09/764,868  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 1510  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 635  
; LENGTH: 925  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-764-868-635

Alignment Scores:  
Pred. No.: 2,17e-07 Length: 925  
Score: 107.00 Matches: 20  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 59.12% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-17 (1-106) x US-09-764-868-635 (1-925)

QY 1 GCATTACATTTTAAATAATTGTGGAAGTGGATAGGAACTGCAGCTGTCAATAGCC 60  
|||||  
Db 906 GlylleHisIleuLysIleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 925

RESULT 15

US-10-106-698-6248  
; Sequence 6248, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: Patentin Ver. 3.0  
; SEQ ID NO 6248  
; LENGTH: 925  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-106-698-6248

Alignment Scores:  
Pred. No.: 2,17e-07 Length: 925  
Score: 107.00 Matches: 20  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 59.12% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-17 (1-106) x US-10-106-698-6248 (1-925)

QY 1 GCATTACATTTTAAATAATTGTGGAAGTGGATAGGAACTGCAGCTGTCAATAGCC 60  
|||||  
Db 906 GlylleHisIleuLysIleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 925

Search completed: April 21, 2004, 16:39:27  
Job time : 18.2609 secs

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GenCore version 5.1.6  
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OM nucleic - protein search, using frame\_plus\_n2p model

Run on: April 21, 2004, 16:13:29 ; Search time 5.40912 Seconds  
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Perfect score: 181  
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Delop 6.0 , Delext 7.0

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Maximum Match 100%  
Listing first 45 summaries

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-LOOPEXT=0 -UNIT5=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi  
-LIST=45 -LOCALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15  
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-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

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4: /cgn2\_6/ptodata/2/iaa/6B.COMB.pep:\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	107	59.1	914	US-09-193-562D-28	Sequence 28, Appl
2	107	59.1	914	US-09-623-624-6	Sequence 6, Appl
3	90	49.7	913	US-09-623-624-2	Sequence 2, Appl
4	59.5	32.9	520	US-09-292-858B-12	Sequence 12, Appl
5	50.5	27.9	808	US-08-804-439A-14	Sequence 14, Appl
6	50.5	27.9	808	US-08-720-229-14	Sequence 14, Appl
7	49	27.1	604	US-08-468-576B-12	Sequence 12, Appl
8	49	27.1	604	US-08-468-579B-12	Sequence 12, Appl
9	49	27.1	604	US-08-468-577B-12	Sequence 12, Appl
10	47.5	26.4	713	US-09-107-532A-4559	Sequence 4559, Ap
11	47	26.0	77	US-09-134-001C-5570	Sequence 5570, Ap
12	47	26.1	408	US-08-742-440A-6	Sequence 6, Appl

13	47	26.0	466	4	US-09-134-000C-5176	Sequence 5176, Ap
14	47	26.0	559	4	US-09-134-001C-3721	Sequence 3721, Ap
15	47	26.0	1015	4	US-09-344-510B-5	Sequence 5, Appl
16	46.5	25.7	357	4	US-09-489-039A-14100	Sequence 14100, A
17	46	25.4	217	4	US-09-489-039A-14094	Sequence 14094, A
18	46	25.6	302	4	US-09-252-991A-29500	Sequence 29500, A
19	46	25.4	318	3	US-08-878-474-3	Sequence 3, Appl
20	46	25.6	343	4	US-09-345-236B-69	Sequence 69, Appl
21	46	25.6	407	2	US-08-742-440A-3	Sequence 3, Appl
22	46	25.4	437	4	US-09-489-039A-12165	Sequence 12165, A
23	46	25.4	508	4	US-09-252-991A-17386	Sequence 17386, A
24	46	25.4	631	4	US-09-134-000C-6175	Sequence 6175, Ap
25	46	25.4	640	4	US-09-252-991A-23252	Sequence 23252, A
26	46	25.4	663	4	US-09-252-991A-23255	Sequence 23255, A
27	46	25.4	701	4	US-09-252-991A-23288	Sequence 23288, A
28	46	25.4	794	4	US-09-134-000C-5518	Sequence 5518, Ap
29	46	25.4	979	3	US-08-870-529-2	Sequence 2, Appl
30	46	25.4	979	4	US-09-544-794-2	Sequence 2, Appl
31	45.5	25.1	422	4	US-09-489-039A-12413	Sequence 12413, A
32	45	24.9	248	4	US-09-711-164-435	Sequence 435, App
33	45	24.9	276	3	US-08-633-993A-15	Sequence 15, Appl
34	45	24.9	276	3	US-08-844-188-15	Sequence 15, Appl
35	45	24.9	276	4	US-09-378-088A-15	Sequence 15, Appl
36	45	24.9	276	4	US-09-548-334A-15	Sequence 15, Appl
37	45	24.9	276	4	US-09-547-621-15	Sequence 15, Appl
38	45	24.9	276	4	US-09-643-596B-15	Sequence 15, Appl
39	45	24.9	278	3	US-08-633-993A-13	Sequence 13, Appl
40	45	24.9	278	3	US-08-844-188-13	Sequence 13, Appl
41	45	24.9	278	4	US-09-378-088A-13	Sequence 13, Appl
42	45	24.9	278	4	US-09-548-334A-13	Sequence 13, Appl
43	45	24.9	278	4	US-09-547-621-13	Sequence 13, Appl
44	45	24.9	278	4	US-09-643-596B-13	Sequence 13, Appl
45	45	24.9	329	4	US-09-502-783A-9	Sequence 9, Appl

ALIGNMENTS

RESULT 1  
US-09-193-562D-28  
; Sequence 28, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Faull, Benedict U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 28  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-193-562D-28

Alignment Scores:	3.93e-09	Length:	914
Pred. No.:	107.00	Matches:	20
Score:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	59.12%	Indels:	0
DB:	4	Gaps:	0
US-09-049-696-17 (1-106) x US-09-193-562D-28 (1-914)			
Qy	1	GGCATTACATTTTAAAAATATGTGGAGTGGATAGGAGACTGCAGCTGTCAATAGCC	60
Db	895	GlytIleHisIleLeuIleMetTrpIleGlyGluLeuGlnLeuSerIleAla	914
RESULT 2			
US-09-623-624-6			





```
QY 9 CATTTTAAATAATATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCCCTAGGGCTG 68
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 403 HisPheLys-----GlutAspAspValThrAlaIleAsnAspLeuGlyLeu 419
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 69 AATTTTGTGCAGATAAATAAA 89
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 420 SerAspCysMetLeuAsnGlu 426
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

RESULT 5
US-08-804-439A-14
; Sequence 14, Application US/08804439A
; Patent No. 6015585
; GENERAL INFORMATION:
; APPLICANT: Rose, Timothy M.
; APPLICANT: Bosch, Marnix L.
; APPLICANT: Strand, Kurt
; TITLE OF INVENTION: GLYCOPROTEIN B OF THE RFHV/KSHV
; TITLE OF INVENTION: SUBFAMILY OF HERPES VIRUSES
; NUMBER OF SEQUENCES: 113
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Ste 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/804,439A
; FILING DATE: February 21, 1997
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 09176/004001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 678-5070
; TELEFAX: (619) 678-5099
; TELEX:
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 808 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-804-439A-14

Alignment Scores:
Pred. No.: 8.45 Length: 808
Score: 50.50 Matches: 15
Percent Similarity: 50.00% Conservative: 3
Best Local Similarity: 41.67% Mismatches: 9
Query Match: 27.90% Indels: 9
DB: 3 Gaps: 2

US-09-049-696-17 (1-106) x US-08-804-439A-14 (1-808)
QY 9 CATTTTAAATAATATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGC----- 59
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 573 HisPheLysAsnTyrValHisValGlu-----ThrLeuProValAsnAsnIleSerThr 590
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 60 -----CTAGGGCTGAATTTTGTGCAGATAAATAAATAAAT 95
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 591 LeuAspThrPheLeuAlaLeuAsnLeuThrPheIleGluAsnIleAsp 606
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

RESULT 6
US-08-720-229-14
; Sequence 14, Application US/08468576B
; Patent No. 5955345
; GENERAL INFORMATION:
; APPLICANT: Rabin, Daniel
; TITLE OF INVENTION: PANCREATIC ISLET CELL ANTIGENS
; TITLE OF INVENTION: OBTAINED BY MOLECULAR CLONING
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sprung Kramer Schaefer & Briscoe
; STREET: 660 White Plains Road
; CITY: Tarrytown
```

```
; Sequence 14, Application US/08720229
; Patent No. 6022542
; GENERAL INFORMATION:
; APPLICANT: Rose, Timothy M.
; APPLICANT: Bosch, Marnix L.
; APPLICANT: Strand, Kurt
; TITLE OF INVENTION: GLYCOPROTEIN B OF THE RFHV/KSHV
; TITLE OF INVENTION: SUBFAMILY OF HERPES VIRUSES
; NUMBER OF SEQUENCES: 100
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Morrison & Foerster
; STREET: 755 Page Mill Road
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304-1018
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/720,229
; FILING DATE: 26-SEP-1996
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Schiff, J. Michael
; REGISTRATION NUMBER: 40,253
; REFERENCE/DOCKET NUMBER: 29938-20002.00
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 813-5600
; TELEFAX: (415) 494-0792
; TELEX: 706141
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 808 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-720-229-14

Alignment Scores:
Pred. No.: 8.45 Length: 808
Score: 50.50 Matches: 15
Percent Similarity: 50.00% Conservative: 3
Best Local Similarity: 41.67% Mismatches: 9
Query Match: 27.90% Indels: 9
DB: 3 Gaps: 2

US-09-049-696-17 (1-106) x US-08-720-229-14 (1-808)
QY 9 CATTTTAAATAATATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGC----- 59
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 573 HisPheLysAsnTyrValHisValGlu-----ThrLeuProValAsnAsnIleSerThr 590
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 60 -----CTAGGGCTGAATTTTGTGCAGATAAATAAATAAAT 95
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 591 LeuAspThrPheLeuAlaLeuAsnLeuThrPheIleGluAsnIleAsp 606
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

RESULT 7
US-08-468-576B-12
; Sequence 12, Application US/08468576B
; Patent No. 5955345
; GENERAL INFORMATION:
; APPLICANT: Rabin, Daniel
; TITLE OF INVENTION: PANCREATIC ISLET CELL ANTIGENS
; TITLE OF INVENTION: OBTAINED BY MOLECULAR CLONING
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sprung Kramer Schaefer & Briscoe
; STREET: 660 White Plains Road
; CITY: Tarrytown
```





QY 3 CATTACACATTTTAAATATGTGTGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCCTA 62  
Db 31 TyrGlnHisValGluValAlaLeuIleAsnGluThrValGlnValIleSerLeu 50  
QY 63 GGGCTGAATTTTGTGCAGATAATAATAATCAATCATCC 104  
Db 51 GlyTyrAsnGluAspIleIle-----IleAsnHisAsnThr 62

## RESULT 12

US-08-742-440A-6  
; Sequence 6, Application US/08742440A

; Patent No. 5892014

; GENERAL INFORMATION:

; APPLICANT: Coughlin, Shaun

; APPLICANT: Ishihari, Hiroaki

; APPLICANT: Connolly, Andrew

; TITLE OF INVENTION: Protease Activated Receptor

; TITLE OF INVENTION: 3 and Uses Thereof

; NUMBER OF SEQUENCES: 23

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Bozicevic & Reed, LLP

; STREET: 285 Hamilton Avenue, Suite 200

; CITY: Palo Alto

; STATE: CA

; COUNTRY: USA

; ZIP: 94301

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: DOS

; SOFTWARE: FastSeq for Windows Version 2.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/742,440A

; FILING DATE: 30-OCT-1996

; CLASSIFICATION: 536

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Sherwood, Pamela J

; REGISTRATION NUMBER: 36,677

; REFERENCE/DOCKET NUMBER: UCAL/060PAT

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 650-327-3400

; TELEFAX: 650 327-3231

; TELEX:

; INFORMATION FOR SEQ ID NO: 6:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 408 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; FEATURE:

US-08-742-440A-6

Alignment Scores:  
Pred. No.: 28 Length: 408  
Score: 47.00 Matches: 9  
Percent Similarity: 60.71% Conservative: 8  
Best Local Similarity: 32.14% Mismatches: 11  
Query Match: 26.11% Indels: 0  
DB: 2 Gaps: 0

US-09-049-696-17 (1-106) x US-08-742-440A-6 (1-408)

QY 95 ATTTATTTTATTTATCTGCAAAATTCAGCCCTAGGCTATTGACAGCTGCAGTTCTCTCT 36  
Db 355 LeuTyrPheIleTyrLeuIleAlaLeuCysLeuGlySerLeuAsnSerCysLeuAspPro 374

QY 35 ATCCACTTCCACATATTTTAAA 12.

Db 375 PheLeuTyrPheLeuMetSerLys 382

## RESULT 13

US-09-134-000C-5176

; Sequence 5176, Application US/09134000C

; Patent No. 6617156

; GENERAL INFORMATION:

; APPLICANT: Lynn Doucette-Stamm et al

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO

; TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 032796-032

; CURRENT APPLICATION NUMBER: US/09/134,000C

; CURRENT FILING DATE: 1998-08-13

; PRIOR APPLICATION NUMBER: US 60/055,778

; PRIOR FILING DATE: 1997-08-15

; NUMBER OF SEQ ID NOS: 6812

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 5176

; LENGTH: 466

; TYPE: PRT

; ORGANISM: Enterococcus faecalis

US-09-134-000C-5176

Alignment Scores:  
Pred. No.: 28.7 Length: 466  
Score: 47.00 Matches: 9  
Percent Similarity: 65.00% Conservative: 4  
Best Local Similarity: 45.00% Mismatches: 7  
Query Match: 25.97% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-17 (1-106) x US-09-134-000C-5176 (1-466)

QY 3 CATTACACATTTTAAATATGTGTGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCCTA 62  
Db 19 HisSerHisPheGluAsnTrpProIleHisLeuArgLeuValLysAlaLysArgSerLeu 38

## RESULT 14

US-09-134-001C-3721

; Sequence 3721, Application US/09134001C

; Patent No. 6380370

; GENERAL INFORMATION:

; APPLICANT: Lynn Doucette-Stamm et al

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS

; TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: GTC-007

; CURRENT APPLICATION NUMBER: US/09/134,001C

; CURRENT FILING DATE: 1998-08-13

; PRIOR APPLICATION NUMBER: US 60/064,964

; PRIOR FILING DATE: 1997-11-08

; PRIOR APPLICATION NUMBER: US 60/055,779

; PRIOR FILING DATE: 1997-08-14

; NUMBER OF SEQ ID NOS: 5674

; SEQ ID NO 3721

; LENGTH: 559

; TYPE: PRT

; ORGANISM: Staphylococcus epidermidis

US-09-134-001C-3721

Alignment Scores:  
Pred. No.: 29.8 Length: 559  
Score: 47.00 Matches: 9  
Percent Similarity: 63.64% Conservative: 5  
Best Local Similarity: 40.91% Mismatches: 8  
Query Match: 25.97% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-17 (1-106) x US-09-134-001C-3721 (1-559)

QY 3 CATTACACATTTTAAATATGTGTGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCCTA 62  
Db 47 HisProAsnIleLysThrTrpIleHisProAspGluArgSerAlaAlaPhePheAlaLeu 66

QY 63 GGGCTG 68

Search completed: April 21, 2004, 16:22:29  
Job time : 7.40912 secs

Db 67 GlyLeu 68

RESULT 15

US-09-344-510B-5

; Sequence 5, Application US/09344510B

; Patent No. 6579850

; GENERAL INFORMATION:

; APPLICANT: Nabeshima, Youichi

; Kuroo, Makoto

; Sekine, Susumu

; Iida, Akihiro

; TITLE OF INVENTION: No. 6579850e1 Polypeptide, No. 6579850e1 DNA and No. 6579850e1

; NUMBER OF SEQUENCES: 38

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Fitzpatrick, Cella, Harper & Scinto

; STREET: 30 Rockefeller Plaza

; CITY: New York

; STATE: New York

; COUNTRY: United States

; ZIP: 10112-3801

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette, 1.44 mb, DS, DD

; COMPUTER: Compaq DeskPro EN

; OPERATING SYSTEM: Windows 98

; SOFTWARE: WordPad

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/344,510B

; FILING DATE: 25-Jun-1999

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: PCT/JP97/04585

; FILING DATE: 12-DEC-1997

; APPLICATION NUMBER: JP 347871

; FILING DATE: 26-DEC-1996

; APPLICATION NUMBER: JP 205815

; FILING DATE: 31-JUL-1997

; ATTORNEY/AGENT INFORMATION:

; NAME: Perry, Lawrence S.

; REGISTRATION NUMBER: 31865

; REFERENCE/DOCKET NUMBER: 766.32

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (212) 218-2100

; TELEFAX: (212) 218-2200

; INFORMATION FOR SEQ ID NO: 5:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 1015

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

; ORIGINAL SOURCE:

; ORGANISM: human

; IMMEDIATE SOURCE:

; LIBRARY: pancreas

; SEQUENCE DESCRIPTION: SEQ ID NO: 5:

US-09-344-510B-5

Alignment Scores:			
Pred. No.:	33.5	Length:	1015
Score:	47.00	Matches:	9
Percent Similarity:	55.26%	Conservative:	12
Best Local Similarity:	23.68%	Mismatches:	7
Query Match:	25.97%	Indels:	10
DB:	4	Gaps:	1

US-09-049-696-17 (1-106) x US-09-344-510B-5 (1-1015)

QY 3 CATTACATTTTAAAAAT-----TATGTGGAAGTG 32

Db 86 HistHrHisLeuLysAsnValSerSerThrAsnGlySerSerAspSertYrilePheLeu 105

QY 33 GATAGAGAACTGCTCAATAGCCTAGGCTGAATTTTGTGAGATAAT 86

Db 106 GluLysAspLeuSerAlaLeuAspPheIleGlyValSerPheTyrGlnPheSer 123

**This Page Blank (uspto)**

QV 121 GTGGATAGGAGAACTGCAGCTGTCAATAGCCTAGGGCTGAATTTTGTGTCAGATAAAATAA 180

Db 262 GTGGATAGGAGAACTGCAGCTGTCAATAGCGCTAGGCTGAAATTTTGTGTCAGATAATAAA 321  
QY 181 ATAAATCATTCATCCTTTTGTGATTATATAAAATTTCTAAAATGATTTTATAGACTTCT 240  
Db 322 ATAAATCATTCATCCTTTTGTGATTATATAAAATTTCTAAAATGATTTTATAGACTTCT 381

QY 241 GT 242  
Db 382 GT 383

## RESULT 2

US-10-060-036-2601  
; Sequence 2601, Application US/10060036  
; Publication No. US2003073144A1

## ; GENERAL INFORMATION:

; APPLICANT: Benson, Darin R.  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Persing, David H.  
; APPLICANT: Hepler, William T.  
; APPLICANT: Jiang, Yuqiu  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; FILE REFERENCE: 210121.566  
; CURRENT APPLICATION NUMBER: US/10/060,036  
; CURRENT FILING DATE: 2002-01-30  
; NUMBER OF SEQ ID NOS: 4560  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2601  
; LENGTH: 482  
; TYPE: DNA  
; ORGANISM: Homo sapiens

US-10-060-036-2601

Query Match 100.0%; Score 242; DB 15; Length 482;  
Best Local Similarity 100.0%; Pred. No. 6.1e-51;  
Matches 242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTTATTCTCCACAGACTCCGCCAGACACCTAGTCTGATGAAACGCTGCTCCTTG 60  
Db 213 GTTATTCTCCACAGACTCCGCCAGACACCTAGTCTGATGAAACGCTGCTCCTTG 272

QY 61 TCCTAATATTCATATCAACAGACACCTTCTCGCATTCACATTTTAAAAATTTATGTGAA 120  
Db 273 TCCTAATATTCATATCAACAGACACCTTCTCGCATTCACATTTTAAAAATTTATGTGAA 332

QY 121 GTGGATAGGAGAACTGCAGCTGTCAATAGCCTAGGCTGAAATTTTGTGTCAGATAATAAA 180  
Db 333 GTGGATAGGAGAACTGCAGCTGTCAATAGCCTAGGCTGAAATTTTGTGTCAGATAATAAA 392

QY 181 ATAAATCATTCATCCTTTTGTGATTATATAAAATTTCTAAAATGATTTTATAGACTTCT 240  
Db 393 ATAAATCATTCATCCTTTTGTGATTATATAAAATTTCTAAAATGATTTTATAGACTTCT 452

QY 241 GT 242  
Db 453 GT 454

## RESULT 3

US-10-066-543-181/c  
; Sequence 181, Application US/10066543  
; Publication No. US20030087818A1

## ; GENERAL INFORMATION:

; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Pyle, Ruth A.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Indrias, Carol Yoseph  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Carter, Darrick

; APPLICANT: Fanger, Gary R.  
; APPLICANT: Smith, Carole L.  
; APPLICANT: Durham, Margarita  
; APPLICANT: Stolk, John A.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; FILE REFERENCE: 210121.563  
; CURRENT APPLICATION NUMBER: US/10/066,543  
; CURRENT FILING DATE: 2002-01-31  
; NUMBER OF SEQ ID NOS: 3417  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 181  
; LENGTH: 482  
; TYPE: DNA  
; ORGANISM: Homo sapiens

US-10-066-543-181

Query Match 100.0%; Score 242; DB 15; Length 482;  
Best Local Similarity 100.0%; Pred. No. 6.1e-51;  
Matches 242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTTATTCTCCACAGACTCCGCCAGACACCTAGTCTGATGAAACGCTGCTCCTTG 60  
Db 270 GTTATTCTCCACAGACTCCGCCAGACACCTAGTCTGATGAAACGCTGCTCCTTG 211

QY 61 TCCTAATATTCATATCAACAGACACCTTCTCGCATTCACATTTTAAAAATTTATGTGAA 120  
Db 210 TCCTAATATTCATATCAACAGACACCTTCTCGCATTCACATTTTAAAAATTTATGTGAA 151

QY 121 GTGGATAGGAGAACTGCAGCTGTCAATAGCCTAGGCTGAAATTTTGTGTCAGATAATAAA 180  
Db 150 GTGGATAGGAGAACTGCAGCTGTCAATAGCCTAGGCTGAAATTTTGTGTCAGATAATAAA 91

QY 181 ATAAATCATTCATCCTTTTGTGATTATATAAAATTTCTAAAATGATTTTATAGACTTCT 240  
Db 90 ATAAATCATTCATCCTTTTGTGATTATATAAAATTTCTAAAATGATTTTATAGACTTCT 31

QY 241 GT 242  
Db 30 GT 29

## RESULT 4

US-10-066-543-1737  
; Sequence 1737, Application US/10066543  
; Publication No. US20030087818A1

## ; GENERAL INFORMATION:

; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Pyle, Ruth A.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Indrias, Carol Yoseph  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Carter, Darrick  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Smith, Carole L.  
; APPLICANT: Durham, Margarita  
; APPLICANT: Stolk, John A.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; FILE REFERENCE: 210121.563  
; CURRENT APPLICATION NUMBER: US/10/066,543  
; CURRENT FILING DATE: 2002-01-31  
; NUMBER OF SEQ ID NOS: 3417  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1737  
; LENGTH: 482  
; TYPE: DNA  
; ORGANISM: Homo sapiens

US-10-066-543-1737

Query Match 100.0%; Score 242; DB 15; Length 482;  
Best Local Similarity 100.0%; Pred. No. 6.1e-51;



Matches 242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTTATTCTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAAACGTCTGCTCCTTG 60  
Db |||  
213 GTTATTCTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAAACGTCTGCTCCTTG 272

QY 61 TCCTAATATTCATATCAACAGACACCACTTCCTGGCATTCACATTTTAAAAATTTATGTGAA 120  
Db |||  
273 TCCTAATATTCATATCAACAGACACCACTTCCTGGCATTCACATTTTAAAAATTTATGTGAA 332

QY 121 GTGGATAGAGAACTGCAGCTGCTCAATAGCTAGGGCTGAATTTTGTGCAGATAATAAA 180  
Db |||  
333 GTGGATAGAGAACTGCAGCTGCTCAATAGCTAGGGCTGAATTTTGTGCAGATAATAAA 392

QY 181 ATAAATCATTCATCCTTTTTTTTGTATTAATAATTTTCTAAATGTAATTTTGTAGACTTCT 240  
Db |||  
393 ATAAATCATTCATCCTTTTTTTTGTATTAATAATTTTCTAAATGTAATTTTGTAGACTTCT 452

QY 241 GT 242  
Db |||  
453 GT 454

## RESULT 5

US-10-066-543-1898  
; Sequence 1898, Application US/10066543  
; Publication No. US20030087818A1

## GENERAL INFORMATION:

; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Pyle, Ruth A.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Indrias, Carol Yoseph  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Carter, Darrick  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Smith, Carole L.  
; APPLICANT: Durham, Margarita  
; APPLICANT: Stolk, John A.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; FILE REFERENCE: 210121.563  
; CURRENT APPLICATION NUMBER: US/10/066,543  
; CURRENT FILING DATE: 2002-01-31  
; NUMBER OF SEQ ID NOS: 3417  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1898  
; LENGTH: 482  
; TYPE: DNA  
; ORGANISM: Homo sapiens

US-10-066-543-1898

Query Match 100.0%; Score 242; DB 15; Length 482;  
Best Local Similarity 100.0%; Pred. No. 6.1e-51;  
Matches 242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTTATTCTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAAACGTCTGCTCCTTG 60  
Db |||  
213 GTTATTCTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAAACGTCTGCTCCTTG 272

QY 61 TCCTAATATTCATATCAACAGACACCACTTCCTGGCATTCACATTTTAAAAATTTATGTGAA 120  
Db |||  
273 TCCTAATATTCATATCAACAGACACCACTTCCTGGCATTCACATTTTAAAAATTTATGTGAA 332

QY 121 GTGGATAGAGAACTGCAGCTGCTCAATAGCTAGGGCTGAATTTTGTGCAGATAATAAA 180  
Db |||  
333 GTGGATAGAGAACTGCAGCTGCTCAATAGCTAGGGCTGAATTTTGTGCAGATAATAAA 392

QY 181 ATAAATCATTCATCCTTTTTTTTGTATTAATAATTTTCTAAATGTAATTTTGTAGACTTCT 240  
Db |||  
393 ATAAATCATTCATCCTTTTTTTTGTATTAATAATTTTCTAAATGTAATTTTGTAGACTTCT 452

QY 241 GT 242  
Db |||  
453 GT 454

Db |||  
453 GT 454

## RESULT 6

US-10-066-543-2241  
; Sequence 2241, Application US/10066543  
; Publication No. US20030087818A1

## GENERAL INFORMATION:

; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Pyle, Ruth A.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Indrias, Carol Yoseph  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Carter, Darrick  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Smith, Carole L.  
; APPLICANT: Durham, Margarita  
; APPLICANT: Stolk, John A.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; FILE REFERENCE: 210121.563  
; CURRENT APPLICATION NUMBER: US/10/066,543  
; CURRENT FILING DATE: 2002-01-31  
; NUMBER OF SEQ ID NOS: 3417  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2241  
; LENGTH: 482  
; TYPE: DNA  
; ORGANISM: Homo sapiens

US-10-066-543-2241

Query Match 100.0%; Score 242; DB 15; Length 482;  
Best Local Similarity 100.0%; Pred. No. 6.1e-51;  
Matches 242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTTATTCTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAAACGTCTGCTCCTTG 60  
Db |||  
213 GTTATTCTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAAACGTCTGCTCCTTG 272

QY 61 TCCTAATATTCATATCAACAGACACCACTTCCTGGCATTCACATTTTAAAAATTTATGTGAA 120  
Db |||  
273 TCCTAATATTCATATCAACAGACACCACTTCCTGGCATTCACATTTTAAAAATTTATGTGAA 332

QY 121 GTGGATAGAGAACTGCAGCTGCTCAATAGCTAGGGCTGAATTTTGTGCAGATAATAAA 180  
Db |||  
333 GTGGATAGAGAACTGCAGCTGCTCAATAGCTAGGGCTGAATTTTGTGCAGATAATAAA 392

QY 181 ATAAATCATTCATCCTTTTTTTTGTATTAATAATTTTCTAAATGTAATTTTGTAGACTTCT 240  
Db |||  
393 ATAAATCATTCATCCTTTTTTTTGTATTAATAATTTTCTAAATGTAATTTTGTAGACTTCT 452

QY 241 GT 242  
Db |||  
453 GT 454

## RESULT 7

US-09-998-598-2534  
; Sequence 2534, Application US/09998598  
; Patent No. US20020150922A1

## GENERAL INFORMATION:

; APPLICANT: Stolk, John A.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Chenault, Ruth A.  
; APPLICANT: Mesgher, Madelein Joy  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; FILE REFERENCE: 210121.561  
; CURRENT APPLICATION NUMBER: US/09/998,598  
; CURRENT FILING DATE: 2001-11-16  
; NUMBER OF SEQ ID NOS: 2606

; SOFTWARE: Corixa Invention Disclosure Database  
; SEQ ID NO 2534  
; LENGTH: 524  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; US-09-998-598-2534

Query Match 100.0%; Score 242; DB 9; Length 524;  
Best Local Similarity 100.0%; Pred. No. 6.4e-51; Indels 0; Gaps 0;  
Matches 242; Conservative 0; Mismatches 0;  
QY 1 GTTTATTCCTCCACAGACTCCGCCAGACACTAGTCTGTATGAAAGCTGTGCTCCTTG 60  
DB 233 GTTTATTCCTCCACAGACTCCGCCAGACACTAGTCTGTATGAAAGCTGTGCTCCTTG 292  
QY 61 TCCTAATATTCATATCAACAGACACACTCTCGGCAATTCACATTTTAAATAATATGTGGAA 120  
DB 293 TCCTAATATTCATATCAACAGACACACTCTCGGCAATTCACATTTTAAATAATATGTGGAA 352  
QY 121 GTGGATAGGAGAACTGCAGCTGCTCAATAGCCTAGGCTGAATTTTGTGTCAGATAATAAA 180  
DB 353 GTGGATAGGAGAACTGCAGCTGCTCAATAGCCTAGGCTGAATTTTGTGTCAGATAATAAA 412  
QY 181 ATAAATCATTCATCCTCTTTTGTATTAATAATTTTCTAAATGTAATTTTAGACTTCT 240  
DB 413 ATAAATCATTCATCCTCTTTTGTATTAATAATTTTCTAAATGTAATTTTAGACTTCT 472  
QY 241 GT 242  
DB 473 GT 474

## RESULT 8

US-10-106-698-2111  
; Sequence 2111, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 2111  
; LENGTH: 3109  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-106-698-2111

Query Match 100.0%; Score 242; DB 15; Length 3109;  
Best Local Similarity 100.0%; Pred. No. 1.4e-50; Indels 0; Gaps 0;  
Matches 242; Conservative 0; Mismatches 0;  
QY 1 GTTTATTCCTCCACAGACTCCGCCAGACACTAGTCTGTATGAAAGCTGTGCTCCTTG 60  
DB 2479 GTTTATTCCTCCACAGACTCCGCCAGACACTAGTCTGTATGAAAGCTGTGCTCCTTG 2538  
QY 61 TCCTAATATTCATATCAACAGACACACTCTCGGCAATTCACATTTTAAATAATATGTGGAA 120  
DB 2539 TCCTAATATTCATATCAACAGACACACTCTCGGCAATTCACATTTTAAATAATATGTGGAA 2598  
QY 121 GTGGATAGGAGAACTGCAGCTGCTCAATAGCCTAGGCTGAATTTTGTGTCAGATAATAAA 180  
DB 2599 GTGGATAGGAGAACTGCAGCTGCTCAATAGCCTAGGCTGAATTTTGTGTCAGATAATAAA 2658  
QY 181 ATAAATCATTCATCCTCTTTTGTATTAATAATTTTCTAAATGTAATTTTAGACTTCT 240

DB 2659 ATAAATCATTCATCCTCTTTTGTATTAATAATTTTCTAAATGTAATTTTAGACTTCT 2718  
QY 241 GT 242  
DB 2719 GT 2720

## RESULT 9

US-09-823-356-25  
; Sequence 25, Application US/09823356  
; Patent No. US20010025098A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Kaser, Matthew R.  
; APPLICANT: Baughn, Marian R.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
; FILE REFERENCE: PF-0489-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823,356  
; CURRENT FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/039,307  
; PRIOR FILING DATE: 1998 March 13  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PERL Program  
; SEQ ID NO 25  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775  
US-09-823-356-25

Query Match 100.0%; Score 242; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 1.4e-50; Indels 0; Gaps 0;  
Matches 242; Conservative 0; Mismatches 0;  
QY 1 GTTTATTCCTCCACAGACTCCGCCAGACACTAGTCTGTATGAAAGCTGTGCTCCTTG 60  
DB 2625 GTTTATTCCTCCACAGACTCCGCCAGACACTAGTCTGTATGAAAGCTGTGCTCCTTG 2684  
QY 61 TCCTAATATTCATATCAACAGACACACTCTCGGCAATTCACATTTTAAATAATATGTGGAA 120  
DB 2685 TCCTAATATTCATATCAACAGACACACTCTCGGCAATTCACATTTTAAATAATATGTGGAA 2744  
QY 121 GTGGATAGGAGAACTGCAGCTGTCAATAGCCTAGGCTGAATTTTGTGTCAGATAATAAA 180  
DB 2745 GTGGATAGGAGAACTGCAGCTGTCAATAGCCTAGGCTGAATTTTGTGTCAGATAATAAA 2804  
QY 181 ATAAATCATTCATCCTCTTTTGTATTAATAATTTTCTAAATGTAATTTTAGACTTCT 240  
DB 2805 ATAAATCATTCATCCTCTTTTGTATTAATAATTTTCTAAATGTAATTTTAGACTTCT 2864  
QY 241 GT 242  
DB 2865 GT 2866

## RESULT 10

US-09-981-353-191  
; Sequence 191, Application US/09981353  
; Patent No. US20020160382A1  
; GENERAL INFORMATION:  
; APPLICANT: Lasek, Amy W.  
; APPLICANT: Jones, David A.  
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER

```
FILE REFERENCE: PA-0038 US
CURRENT APPLICATION NUMBER: US/09/981,353
NUMBER OF FILING DATE: 2001-10-11
NUMBER OF SEQ ID NOS: 194
SOFTWARE: PERL Program
SEQ ID NO 191
LENGTH: 3111
TYPE: DNA
ORGANISM: Homo sapiens
NAME/KEY: misc feature
OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CB1
US-09-981-353-191

Query Match
Best Local Similarity 100.0%; Score 242; DB 9; Length 3111;
Matches 242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTTTATTCCTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAAACGCTGCTCCTTG 60
DB 2625 GTTTATTCCTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAAACGCTGCTCCTTG 2684

QY 61 TCCTAATATTCATATCAACAGCACCATTCTCGCATTCACATTTTAAAAAATTATGTGAA 120
DB 2685 TCCTAATATTCATATCAACAGCACCATTCTCGCATTCACATTTTAAAAAATTATGTGAA 2744

QY 121 GTGGATAGAGAACTGCAGCTGTCAATAGCCTAGGCTGAAATTTTGTCCAGATAATAAA 180
DB 2745 GTGGATAGAGAACTGCAGCTGTCAATAGCCTAGGCTGAAATTTTGTCCAGATAATAAA 2804

QY 181 ATAAATCATTCATCTTTTGTGATTATATAAATTTCTAAAAATGTAATTTTAGACTTCCT 240
DB 2805 ATAAATCATTCATCTTTTGTGATTATATAAATTTCTAAAAATGTAATTTTAGACTTCCT 2864

QY 241 GT 242
DB 2865 GT 2866

Query Match
Best Local Similarity 100.0%; Score 242; DB 9; Length 3111;
Matches 242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTTTATTCCTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAAACGCTGCTCCTTG 60
DB 2625 GTTTATTCCTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAAACGCTGCTCCTTG 2684

QY 61 TCCTAATATTCATATCAACAGCACCATTCTCGCATTCACATTTTAAAAAATTATGTGAA 120
DB 2685 TCCTAATATTCATATCAACAGCACCATTCTCGCATTCACATTTTAAAAAATTATGTGAA 2744

QY 121 GTGGATAGAGAACTGCAGCTGTCAATAGCCTAGGCTGAAATTTTGTCCAGATAATAAA 180
DB 2745 GTGGATAGAGAACTGCAGCTGTCAATAGCCTAGGCTGAAATTTTGTCCAGATAATAAA 2804

QY 181 ATAAATCATTCATCTTTTGTGATTATATAAATTTCTAAAAATGTAATTTTAGACTTCCT 240
DB 2805 ATAAATCATTCATCTTTTGTGATTATATAAATTTCTAAAAATGTAATTTTAGACTTCCT 2864

QY 241 GT 242
DB 2865 GT 2866

Query Match
Best Local Similarity 100.0%; Score 242; DB 15; Length 3111;
Matches 242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTTTATTCCTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAAACGCTGCTCCTTG 60
DB 2625 GTTTATTCCTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAAACGCTGCTCCTTG 2684

QY 61 TCCTAATATTCATATCAACAGCACCATTCTCGCATTCACATTTTAAAAAATTATGTGAA 120
DB 2685 TCCTAATATTCATATCAACAGCACCATTCTCGCATTCACATTTTAAAAAATTATGTGAA 2744
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QY 121 GTGGATAGAGAACTGCAGCTGTCAATAGCCTAGGCTGAAATTTTGTCCAGATAATAAA 180
DB 2745 GTGGATAGAGAACTGCAGCTGTCAATAGCCTAGGCTGAAATTTTGTCCAGATAATAAA 2804

QY 181 ATAAATCATTCATCTTTTGTGATTATATAAATTTCTAAAAATGTAATTTTAGACTTCCT 240
DB 2805 ATAAATCATTCATCTTTTGTGATTATATAAATTTCTAAAAATGTAATTTTAGACTTCCT 2864

QY 241 GT 242
DB 2865 GT 2866

RESULT 12
US-09-764-868-22
; Sequence 22, Application US/09764868
; Patent No. US20020168711A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT32
; CURRENT APPLICATION NUMBER: US/09/764,868
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1510
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 22
; LENGTH: 3267
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-868-22

Query Match
Best Local Similarity 100.0%; Score 242; DB 9; Length 3267;
Matches 242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTTTATTCCTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAAACGCTGCTCCTTG 60
DB 2626 GTTTATTCCTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAAACGCTGCTCCTTG 2685

QY 61 TCCTAATATTCATATCAACAGCACCATTCTCGGCATTCACATTTTAAAAAATTATGTGAA 120
DB 2686 TCCTAATATTCATATCAACAGCACCATTCTCGGCATTCACATTTTAAAAAATTATGTGAA 2745

QY 121 GTGGATAGAGAACTGCAGCTGTCAATAGCCTAGGCTGAAATTTTGTCCAGATAATAAA 180
DB 2746 GTGGATAGAGAACTGCAGCTGTCAATAGCCTAGGCTGAAATTTTGTCCAGATAATAAA 2805

QY 181 ATAAATCATTCATCTTTTGTGATTATATAAATTTCTAAAAATGTAATTTTAGACTTCCT 240
DB 2806 ATAAATCATTCATCTTTTGTGATTATATAAATTTCTAAAAATGTAATTTTAGACTTCCT 2865

QY 241 GT 242
DB 2866 GT 2867

RESULT 13
US-10-055-412B-27
; Sequence 27, Application US/10055412B
; Publication No. US20030059861A1
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0058
; CURRENT APPLICATION NUMBER: US/10/055,412B
; CURRENT FILING DATE: 2001-10-29
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1510
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 22
; LENGTH: 3267
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-055-412B-27
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; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 27  
; LENGTH: 3007  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-055-412B-27

Query Match 98.7%; Score 238.8; DB 15; Length 3007;  
Best Local Similarity 99.2%; Pred. No. 8.6e-50;  
Matches 240; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GTTATTCTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAAACGTCTGCTCCTTG 60  
DB 2638 GTTATTCTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAAACGTCTGCTCCTTG 2697  
QY 61 TCCTAATATTCATATCAACAGACACCATCTCTGGCATTACATTTTAAAAAATATGTGAA 120  
DB 2698 TCCTAATATTCATATCAACAGACACCATCTCTGGCATTACATTTTAAAAAATATGTGAA 2757  
QY 121 GTGGATAGGAGAACTGCAGCTGTCAATAGCCTAGGCTGAATTTTGTTCAGATAATAAA 180  
DB 2758 GTGGATAGGAGAACTGCAGCTGTCAATAGCCTAGGCTGAATTTTGTTCAGATAATAAA 2817  
QY 181 ATAAATCATTCATCTCTTTTGTGATTATAAAATTTTCTAAATGTATTTAGACTTCT 240  
DB 2818 ATAAATCATTCATCTCTTTTGTGATTATAAAATTTTCTAAATGTATTTAGACTTCT 2877  
QY 241 GT 242  
DB 2878 GT 2879

## RESULT 14

US-10-066-543-22/c  
; Sequence 22, Application US/10066543  
; Publication No. US20030087818A1  
; GENERAL INFORMATION:

; APPLICANT: Jiang, Yudiu  
; APPLICANT: Pyle, Ruth A.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Indrias, Carol Yoseph  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Carter, Darrick  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Smith, Carole L.  
; APPLICANT: Durham, Margarita  
; APPLICANT: Stolk, John A.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; FILE REFERENCE: 210121.563  
; CURRENT APPLICATION NUMBER: US/10/066,543  
; CURRENT FILING DATE: 2002-01-31  
; NUMBER OF SEQ ID NOS: 3417  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 22  
; LENGTH: 376  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-066-543-22

Query Match 95.0%; Score 230; DB 15; Length 376;  
Best Local Similarity 100.0%; Pred. No. 5.7e-48;  
Matches 230; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTTATTCTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAAACGTCTGCTCCTTG 60  
DB 297 GTTATTCTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAAACGTCTGCTCCTTG 238  
QY 61 TCCTAATATTCATATCAACAGACACCATCTCTGGCATTACATTTTAAAAAATATGTGAA 120  
DB 237 TCCTAATATTCATATCAACAGACACCATCTCTGGCATTACATTTTAAAAAATATGTGAA 178

QY 121 GTGGATAGGAGAACTGCAGCTGTCAATAGCCTAGGCTGAATTTTGTTCAGATAATAAA 180  
DB 177 GTGGATAGGAGAACTGCAGCTGTCAATAGCCTAGGCTGAATTTTGTTCAGATAATAAA 118  
QY 181 ATAAATCATTCATCTCTTTTGTGATTATAAAATTTTCTAAATGTATTT 230  
DB 117 ATAAATCATTCATCTCTTTTGTGATTATAAAATTTTCTAAATGTATTT 68

## RESULT 15

US-10-066-543-2792  
; Sequence 2792, Application US/10066543  
; Publication No. US20030087818A1  
; GENERAL INFORMATION:

; APPLICANT: Jiang, Yudiu  
; APPLICANT: Pyle, Ruth A.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Indrias, Carol Yoseph  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Carter, Darrick  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Smith, Carole L.  
; APPLICANT: Durham, Margarita  
; APPLICANT: Stolk, John A.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; FILE REFERENCE: 210121.563  
; CURRENT APPLICATION NUMBER: US/10/066,543  
; CURRENT FILING DATE: 2002-01-31  
; NUMBER OF SEQ ID NOS: 3417  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2792  
; LENGTH: 481  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-066-543-2792

Query Match 95.0%; Score 230; DB 15; Length 481;  
Best Local Similarity 99.6%; Pred. No. 6.3e-48;  
Matches 241; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 GTTATTCTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAAACGTCTGCTCCTTG 60  
DB 213 GTTATTCTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAAACGTCTGCTCCTTG 272  
QY 61 TCCTAATATTCATATCAACAGACACCATCTCTGGCATTACATTTTAAAAAATATGTGAA 120  
DB 273 TCCTAATATTCATATCAACAGACACCATCTCTGGCATTACATTTTAAAAAATATGTGAA 332  
QY 121 GTGGATAGGAGAACTGCAGCTGTCAATAGCCTAGGCTGAATTTTGTTCAGATAATAAA 180  
DB 333 GTGGATAGGAGAACTGCAGCTGTCAATAGCCTAGGCTGAATTTTGTTCAGATAATAAA 392  
QY 181 ATAAATCATTCATCTCTTTTGTGATTATAAAATTTTCTAAATGTATTTAGACTTCT 240  
DB 393 ATAAATCATTCATCTCTTTTGTGATTATAAAATTTTCTAAATGTATTTAGACTTCT 451  
QY 241 GT 242  
DB 452 GT 453

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OM nucleic - protein search, using frame\_plus\_n2p model

Run on: April 21, 2004, 16:13:49 ; Search time 34.8409 Seconds

(without alignments)  
3840.718 Million cell updates/sec

Title: US-09-049-696-16

Perfect score: 421

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Delop 6.0 , Delext 7.0

Searched: 1133595 seqs, 276475211 residues

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-TRANS=human40.cdi -LIST=45 -DOALIGN=200 -THR SCORE=pct -THR MAX=100  
-THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEADSIZE=500 -MINLEN=0  
-MAXLEN=200000000 -USRR=US09049696 @CGN 1 1 139 @runat\_21042004\_154838\_21265  
-NCPU=6 -ICPU=3 -NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100  
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Database :

- Published Applications AA:
- 1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep.\*
  - 2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*
  - 3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*
  - 4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep.\*
  - 5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pep.\*
  - 6: /cgn2\_6/ptodata/2/pubpaa/PCTUS\_PUBCOMB.pep.\*
  - 7: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep.\*
  - 8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep.\*
  - 9: /cgn2\_6/ptodata/2/pubpaa/US09A\_PUBCOMB.pep.\*
  - 10: /cgn2\_6/ptodata/2/pubpaa/US09B\_PUBCOMB.pep.\*
  - 11: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep.\*
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  - 14: /cgn2\_6/ptodata/2/pubpaa/US10B\_PUBCOMB.pep.\*
  - 15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*
  - 16: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pep.\*
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  - 18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	278	66.0	552	14	US-10-106-698-4628	Sequence 4628, Ap
2	278	66.0	869	14	US-10-106-698-6388	Sequence 6388, Ap
3	278	66.0	914	9	US-09-823-356-8	Sequence 8, Appli
4	278	66.0	914	9	US-09-922-217-1066	Sequence 1066, Ap
5	278	66.0	914	9	US-09-833-263-1066	Sequence 1066, Ap
6	278	66.0	914	9	US-09-981-353-192	Sequence 192, App
7	278	66.0	914	11	US-09-833-245-2054	Sequence 2054, Ap
8	278	66.0	914	13	US-10-025-380-1066	Sequence 1066, Ap
9	278	66.0	914	14	US-10-055-412B-28	Sequence 28, Appli
10	278	66.0	914	14	US-10-270-595-6	Sequence 6, Appli
11	278	66.0	914	14	US-10-235-994-26	Sequence 26, Appli
12	278	66.0	914	14	US-10-060-255-42	Sequence 42, Appli
13	278	66.0	914	15	US-10-363-214-133	Sequence 133, App
14	278	66.0	925	9	US-09-764-868-635	Sequence 635, App
15	278	66.0	925	14	US-10-106-698-6248	Sequence 6248, Ap
16	179.5	42.6	913	14	US-10-270-595-2	Sequence 2, Appli
17	179.5	42.6	913	15	US-10-369-214-132	Sequence 132, App
18	116	27.6	228	12	US-09-988-282-9	Sequence 9, Appli
19	69.5	16.5	158	12	US-10-424-599-159410	Sequence 159410,
20	67	15.9	80	12	US-10-424-599-157008	Sequence 157008,
21	67	15.9	558	14	US-10-156-761-10602	Sequence 10602, A
22	64	15.2	674	13	US-10-086-464-14	Sequence 14, Appli
23	64	15.2	921	12	US-10-282-122A-78226	Sequence 78226, A
24	63	15.0	598	12	US-10-282-122A-60611	Sequence 60611, A
25	63	15.0	768	12	US-10-282-122A-51012	Sequence 51012, A
26	63	15.0	910	9	US-09-855-754-5	Sequence 5, Appli
27	63	15.0	910	14	US-10-227-353-2	Sequence 2, Appli
28	63	15.0	910	14	US-10-302-896-5	Sequence 5, Appli
29	63	15.0	910	14	US-10-312-732A-6	Sequence 6, Appli
30	63	15.0	911	9	US-09-855-754-4	Sequence 4, Appli
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37	62.5	14.8	314	12	US-10-425-114-71839	Sequence 71839, A
38	62.5	14.8	490	12	US-10-425-114-47211	Sequence 47211, A
39	62.5	14.8	505	9	US-09-977-269-17	Sequence 17, Appli
40	62.5	14.8	505	9	US-09-977-260-17	Sequence 17, Appli
41	62.5	14.8	505	10	US-09-977-261-17	Sequence 17, Appli
42	62.5	14.8	505	15	US-10-193-720-2	Sequence 2, Appli
43	62.5	14.8	526	12	US-10-276-633-3	Sequence 3, Appli
44	62.5	14.8	526	15	US-10-394-322A-31	Sequence 31, Appli
45	62	14.7	453	15	US-10-104-047-3019	Sequence 3019, Ap

ALIGNMENTS

RESULT 1

US-10-106-698-4628  
; Sequence 4628, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 4628  
; LENGTH: 552  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-106-698-4628



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; CURRENT APPLICATION NUMBER: US/09/922,217
; CURRENT FILING DATE: 2001-08-03
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1066
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-922-217-1066

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Query Match:      66.03%      Indels:      0
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US-09-049-696-16 (1-242) x US-09-922-217-1066 (1-914)

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Db 905 TrpIleGlyGluLeuGlnLeuSerIleAla 914
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RESULT 5
US-09-833-263-1066
; Sequence 1066, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Meagher, Madeleine J.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C12
; CURRENT APPLICATION NUMBER: US/09/833,263
; CURRENT FILING DATE: 2001-04-10
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1066
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-833-263-1066

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Query Match:      66.03%      Indels:      0
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US-09-049-696-16 (1-242) x US-09-833-263-1066 (1-914)

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RESULT 6
US-09-981-353-192
; Sequence 192, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
; APPLICANT: Lasek, Amy W.
; APPLICANT: Jones, David A.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US
; CURRENT APPLICATION NUMBER: US/09/981,353
; CURRENT FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO 192
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CD1
US-09-981-353-192

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Score:          278.00      Matches:      50
Percent Similarity: 100.00%      Conservative: 0
Best Local Similarity: 100.00%      Mismatches: 0
Query Match:      66.03%      Indels:      0
DB:              Gaps:      0

US-09-049-696-16 (1-242) x US-09-981-353-192 (1-914)

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Db 885 ProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuIleMetTrpLys 904
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QY 122 TGGATAGGAGAACTGCAGCTGTCAATAGCC 151
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RESULT 7
US-09-833-245-2054
; Sequence 2054, Application US/09833245
; Publication No. US20040010134A1
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF546PCT
; CURRENT APPLICATION NUMBER: US/09/833,245
; CURRENT FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229, 358
; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256, 931
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/199, 384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 2267
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2054
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-833-245-2054

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Score: 278.00 Matches: 50  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 66.03% Indels: 0  
DB: 11 Gaps: 0

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QY 62 CCTAATATTCATATCAACAGACACCTCTGTCATTCACATTTAAAAATTATGCGAAG 121

Db 885 ProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLys 904

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Db 905 TrpIleGlyGluLeuGlnLeuSerIleAla 914

#### RESULT 8

US-10-025-380-1066

; Sequence 1066, Application US/10025380

; Publication No. US20020182191A1

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

; APPLICANT: Lodes, Michael J.

; APPLICANT: Secrist, Heather

; APPLICANT: Benson, Darin R.

; APPLICANT: Meagher, Madeleine Joy

; APPLICANT: Stolk, John A.

; APPLICANT: Wang, Tongtong

; APPLICANT: Jiang, Yugu

; APPLICANT: Smith, Carole L.

; APPLICANT: King, Gordon E.

; APPLICANT: Wang, Aijun

; APPLICANT: Clapper, Jonathan D.

; APPLICANT: Skeiky, Yasir A. W.

; APPLICANT: Fanger, Gary R.

; APPLICANT: Vedvick Thomas S.

; APPLICANT: Carter, Darick

; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS

; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE

; FILE REFERENCE: 210121.471C14

; CURRENT APPLICATION NUMBER: US/10/025,380

; NUMBER OF SEQ ID NOS: 1129

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 1066

; LENGTH: 914

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-025-380-1066

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Score: 278.00 Matches: 50  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 66.03% Indels: 0  
DB: 13 Gaps: 0

US-09-049-696-16 (1-242) x US-10-025-380-1066 (1-914)

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QY 62 CCTAATATTCATATCAACAGACACCTCTGTCATTCACATTTAAAAATTATGCGAAG 121

Db 885 ProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLys 904

QY 122 TGGATAGGAGAACTGCAGTGTCAATAGCC 151

Db 905 TrpIleGlyGluLeuGlnLeuSerIleAla 914

#### RESULT 9

US-10-055-412B-28

; Sequence 28, Application US/10055412B

; Publication No. US20030059861A1

; GENERAL INFORMATION:

; APPLICANT: Pauli, Benedicht U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules

; FILE REFERENCE: 18617.0058

; CURRENT APPLICATION NUMBER: US/10/055,412B

; CURRENT FILING DATE: 2001-10-29

; PRIOR APPLICATION NUMBER: US/09/193,562

; PRIOR FILING DATE: 1998-11-17

; PRIOR APPLICATION NUMBER: US/60/065,922

; PRIOR FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 28

; LENGTH: 914

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-055-412B-28

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Score: 278.00 Matches: 50

Percent Similarity: 100.00% Conservative: 0

Best Local Similarity: 100.00% Mismatches: 0

Query Match: 66.03% Indels: 0

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Db 865 PheileProGlnThrProGluThrProSerProAspGluThrSerAlaProCys 884

QY 62 CCTAATATTCATATCAACAGACACCTCTGTCATTCACATTTAAAAATTATGCGAAG 121

Db 885 ProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLys 904

QY 122 TGGATAGGAGAACTGCAGTGTCAATAGCC 151

Db 905 TrpIleGlyGluLeuGlnLeuSerIleAla 914

#### RESULT 10

US-10-270-595-6

; Sequence 6, Application US/10270595

; Publication No. US20030078409A1

; GENERAL INFORMATION:

; APPLICANT: Magainin Pharmaceuticals, Inc.

; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating

; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related

; TITLE OF INVENTION: Disorders

; FILE REFERENCE: 36870-5073-WO

; CURRENT APPLICATION NUMBER: US/10/270,595

; CURRENT FILING DATE: 2002-10-16

; PRIOR APPLICATION NUMBER: US/09/623,624

; PRIOR FILING DATE: 2000-09-06

; PRIOR APPLICATION NUMBER: PCT/US99/04703

; PRIOR FILING DATE: 1999-03-03

; PRIOR APPLICATION NUMBER: US 08/697,360

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,419

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,440

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,471

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,471

; PRIOR FILING DATE: 1996-08-23



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Db	905	TrpIleGlyGluLeuGlnLeuSerIleAla	914
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; Sequence 42, Application US/10060255			
; Publication No. US20030113840A1			
; GENERAL INFORMATION:			
; APPLICANT: Rosen et al.			
; TITLE OF INVENTION: 25 Human secreted proteins			
; FILE REFERENCE: PZ042P1			
; CURRENT APPLICATION NUMBER: US/10/060,255			
; CURRENT FILING DATE: 2002-02-01			
; PRIOR APPLICATION NUMBER: 09/781,417			
; PRIOR FILING DATE: 2001-02-13			
; PRIOR APPLICATION NUMBER: PCT/US00/22325			
; PRIOR FILING DATE: 2000-08-16			
; PRIOR APPLICATION NUMBER: 60/149,182			
; PRIOR FILING DATE: 1999-08-17			
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; ORGANISM: Homo sapiens			
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Query Match:	66.03	Indels:	0
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QY	62	CCTAATATTATATCAACAGCAGCACCATTCCTGGCATTCACATTTTAAAAAATTATGTGGAAG	121
Db	885	ProAenIIeHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLys	904
QY	122	TGGATAGAGAACTGCAGCTGTCATAGCC	151
Db	905	TrpIleGlyGluLeuGlnLeuSerIleAla	914
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US-10-369-214-133			
; Sequence 133, Application US/10369214			
; Publication No. US20030232037A1			
; GENERAL INFORMATION:			
; APPLICANT: Groot, Pieter C.			
; APPLICANT: Berghenegouwen van, Bram J.			
; APPLICANT: Oosterhout van, Antoon J.M.			
; TITLE OF INVENTION: Genes involved in immune related responses observed			
; FILE REFERENCE: with asthma			
; CURRENT APPLICATION NUMBER: US/10/369,214			
; CURRENT FILING DATE: 2003-02-15			
; PRIOR APPLICATION NUMBER: EP 00202867.8			
; PRIOR FILING DATE: 2000-08-16			
; PRIOR APPLICATION NUMBER: PCT/NL01/00610			
; PRIOR FILING DATE: 2001-08-16			
; NUMBER OF SEQ ID NOS: 139			

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; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 133
; LENGTH: 914
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; ORGANISM: Homo sapiens
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; NAME/KEY: SITE
; LOCATION: (1)..(914)
; OTHER INFORMATION: /note="Human CLC1"
US-10-369-214-133

Alignment Scores:
Pred. No.: 2,61e-26 Length: 914
Score: 278.00 Matches: 50
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 66.03% Indels: 0
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US-09-049-696-16 (1-242) x US-10-369-214-133 (1-914)
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QY 62 CCTAATATTTCATATCAACAGACACCATTCCTGGCATTTCACATTTTAAAAAATTATGTGGAAG 121
Db 895 ProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuIleMetTrpLys 904
QY 122 TGGATAGGAGAACTGCAGCTGTCAATAGCC 151
Db 905 TrpIleGlyGluLeuGlnLeuSerIleAla 914

RESULT 14
US-09-764-868-635
; Sequence 635, Application US/09764868
; Patent No. US20020168711A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT232
; CURRENT APPLICATION NUMBER: US/09/764,868
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1510
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 635
; LENGTH: 925
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-764-868-635

Alignment Scores:
Pred. No.: 2,61e-26 Length: 925
Score: 278.00 Matches: 50
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 66.03% Indels: 0
DB: 9 Gaps: 0

US-09-049-696-16 (1-242) x US-09-764-868-635 (1-925)
QY 2 TTTATTCTCCACAGACTCCGACAGACACCTAGTCTCTGATGAACGTCCTCTTGT 61
Db 876 PheIleProGlnThrProGlnThrProSerProAspGluThrSerAlaProCys 895
QY 62 CCTAATATTTCATATCAACAGACACCATTCCTGGCATTTCACATTTTAAAAAATTATGTGGAAG 121
Db 896 ProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuIleMetTrpLys 915
QY 122 TGGATAGGAGAACTGCAGCTGTCAATAGCC 151
Db 916 TrpIleGlyGluLeuGlnLeuSerIleAla 925
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RESULT 15
US-10-106-698-6248
; Sequence 6248, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides
; FILE REFERENCE: PA005P1
; CURRENT APPLICATION NUMBER: US/10/106,698
; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 6248
; LENGTH: 925
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-106-698-6248
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Alignment Scores:
Pred. No.: 2,61e-26 Length: 925
Score: 278.00 Matches: 50
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 66.03% Indels: 0
DB: 14 Gaps: 0
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US-09-049-696-16 (1-242) x US-10-106-698-6248 (1-925)
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Db 876 PheIleProGlnThrProGlnThrProSerProAspGluThrSerAlaProCys 895
QY 62 CCTAATATTTCATATCAACAGACACCATTCCTGGCATTTCACATTTTAAAAAATTATGTGGAAG 121
Db 896 ProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuIleMetTrpLys 915
QY 122 TGGATAGGAGAACTGCAGCTGTCAATAGCC 151
Db 916 TrpIleGlyGluLeuGlnLeuSerIleAla 925
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Search completed: April 21, 2004, 16:39:24  
Job time : 37.8409 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 24, 2004, 00:33:00 ; Search time 22.2447 Seconds

(without alignments)  
6037.311 Million cell updates/sec

Title: US-09-049-696-16

Perfect score: 242

Sequence: 1 GTTATTCTCCACAGACTC.....ATGTATTAGACTTCCTGT 242

Scoring table: IDENTITY NUC

Gapop 10\_0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents NA.\*

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2: /cgn2\_6/prodata/2/ina/5B\_COMB.seq.\*  
3: /cgn2\_6/prodata/2/ina/6A\_COMB.seq.\*  
4: /cgn2\_6/prodata/2/ina/6B\_COMB.seq.\*  
5: /cgn2\_6/prodata/2/ina/PCTUS\_COMB.seq.\*  
6: /cgn2\_6/prodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	238.8	98.7	3007	4	US-09-193-562D-27
2	197	81.4	1512	4	US-09-016-434-850
3	166.8	68.9	878	1	US-08-469-667-8
4	166.8	68.9	878	4	US-09-224-110-8
5	166.8	68.9	878	5	PCT-US95-07289-8
6	154	63.6	2745	4	US-09-623-624-5
7	92	38.0	2931	4	US-09-623-624-1
8	36.8	15.2	1664976	4	US-08-916-421B-1
9	34.6	14.3	6669	4	US-10-204-708-6
10	33.8	14.0	805	1	US-08-118-469A-6
11	33.8	14.0	805	1	US-08-909-119-6
12	33.8	14.0	6326	4	US-10-204-708-58
13	33.8	14.0	640881	4	US-09-790-988-1
14	33.6	13.9	640881	4	US-09-790-988-1
15	33.4	13.8	642	4	US-09-543-681A-631
16	33.4	13.8	34185	4	US-09-545-481-3
17	33.2	13.7	2520	2	US-08-454-557C-50
18	33.2	13.7	2520	2	US-08-340-426D-50
19	33.2	13.7	2520	2	US-08-450-673C-50
20	33.2	13.7	2520	5	PCT-US95-17111A-50
21	33.2	13.7	10684	3	US-08-618-100B-3
22	33.2	13.7	1664976	4	US-08-916-421B-1
23	33	13.6	6583	4	US-10-204-708-25
24	32.8	13.6	6317	4	US-10-204-708-11
25	32.6	13.5	19124	2	US-08-487-826B-13
26	32.2	13.3	11049	4	US-10-204-708-23
27	32	13.2	5304	4	US-09-023-655-664

28	32	13.2	8607	4	US-10-204-708-71	Sequence 71, Appl
29	32	13.2	319608	4	US-09-539-333D-1	Sequence 1, Appl
30	32	13.2	319608	4	US-09-679-409-1	Sequence 1, Appl
31	31.8	13.1	5152	4	US-10-204-708-73	Sequence 73, Appl
32	31.6	13.1	6519	1	US-08-233-008A-7	Sequence 7, Appl
33	31.4	13.0	646	4	US-09-288-143-22	Sequence 22, Appl
34	31.4	13.0	1614	4	US-09-328-352-1749	Sequence 1749, Ap
35	31.4	13.0	8093	4	US-10-204-708-32	Sequence 32, Appl
36	31.4	13.0	96109	4	US-09-596-002-35	Sequence 35, Appl
37	31.2	12.9	2430	4	US-09-620-312D-176	Sequence 176, App
38	31.2	12.9	6070	4	US-10-204-708-10	Sequence 10, Appl
39	31	12.8	552	4	US-09-134-001C-2261	Sequence 2261, Ap
40	31	12.8	631	4	US-08-956-171E-692	Sequence 692, App
41	31	12.8	2692	4	US-09-453-702B-215	Sequence 215, App
42	31	12.8	1230025	4	US-09-198-452A-1	Sequence 1, Appl
43	30.8	12.7	198	4	US-09-107-532A-2820	Sequence 2820, Ap
44	30.8	12.7	6156	4	US-10-204-708-59	Sequence 59, Appl
45	30.8	12.7	9347	4	US-10-204-708-36	Sequence 36, Appl

#### ALIGNMENTS

##### RESULT 1

US-09-193-562D-27  
; Sequence 27, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedict U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 27  
; LENGTH: 3007  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-193-562D-27

Query Match		98.7%;	Score 238.8;	DB 4;	Length 3007;
Best Local Similarity		99.2%;	Pred. No. 2.9e-60;		
Matches 240;		Conservative 0;	Mismatches 2;	Indels 0;	Gaps 0;
QY	1	GTATTATCTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAAACGTCGCTCCTTG	60		
DB	2638	GTATTATCTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAAACGTCGCTCCTTG	2697		
QY	61	TCTTAATATTCATATCAACAGACCACTTCCTGCGATTTCACATTTTAAAAAATTATGTGGAA	120		
DB	2698	TCTTAATATTCATATCAACAGACCACTTCCTGCGATTTCACATTTTAAAAAATTATGTGGAA	2757		
QY	121	GTGGATAGGAGAACTGCAGCTGTCAATAGCGCTAGGCTGAAATTTTGTGCAGATAATAA	180		
DB	2758	GTGGATAGGAGAACTGCAGCTGTCAATAGCGCTAGGCTGAAATTTTGTGCAGATAATAA	2817		
QY	181	ATAAATCATTCATCTCTTTTGTGATTATAAAAATTTCTAAAATGTATTTTAGACTTCCT	240		
DB	2818	ATAAATCATTCATCTCTTTTGTGATTATAAAAATTTTAAAATGTATTTTAGAATTCCT	2877		
QY	241	GT 242			
DB	2878	GT 2879			
RESULT 2					
US-09-016-434-850					
; Sequence 850, Application US/09016434					
; Patent No. 6500938					
; GENERAL INFORMATION:					

APPLICANT: Janice Au-Young  
APPLICANT: Jeffrey J. Seilhamer  
TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
TITLE OF INVENTION: PATHWAY GENE EXPRESSION  
NUMBER OF SEQUENCES: 1490  
CORRESPONDENCE ADDRESS:  
ADDRESSER: INCYTE PHARMACEUTICALS, INC.  
STREET: 3174 PORTER DRIVE  
CITY: PALO ALTO  
STATE: CALIFORNIA  
COUNTRY: USA  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/016,434  
FILING DATE: HERewith  
CLASSIFICATION:  
PRIOR APPLICATION NUMBER:  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Zeller, Karen J.  
REGISTRATION NUMBER: 37,071  
REFERENCE/DOCKET NUMBER: PA-0002 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (650) 855-0555  
TELEFAX: (650) 845-4166  
INFORMATION FOR SEQ ID NO: 850:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1512 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: COLNNOT01  
CLONE: 608819  
US-09-016-434-850

Query Match 81.4%; Score 197; DB 4; Length 1512;  
Best Local Similarity 100.0%; Pred. No. 3.5e-48;  
Matches 197; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GTTTATTCCTCCACAGACTCCGCCAGACACCTAGTCTCTGATGAAACGCTCTGCTCCTTG 60  
DB 1316 GTTTATTCCTCCACAGACTCCGCCAGACACCTAGTCTCTGATGAAACGCTCTGCTCCTTG 1375  
QY 61 TCCTAATATTCATATCAACAGACACATTCCTGGCATTCACATTTTAAATAATATGTGGA 120  
DB 1376 TCCTAATATTCATATCAACAGACACATTCCTGGCATTCACATTTTAAATAATATGTGGA 1435  
QY 121 GTGGATAGAGACTCCAGCTCTCAATAGCCTAGGCTGAATTTTGTGAGATAATAA 180  
DB 1436 GTGGATAGAGAACTGCAGCTGTCAATAGCCTAGGCTGAATTTTGTGAGATAATAA 1495  
QY 181 ATAAATCATTCATCCTT 197  
DB 1496 ATAAATCATTCATCCTT 1512

RESULT 3  
US-08-469-667-8  
Sequence 8, Application US/08469667  
Patent No. 5733748  
GENERAL INFORMATION:  
APPLICANT: Yu, Guo-Liang  
APPLICANT: Rosen, Craig  
TITLE OF INVENTION: Colon Specific Genes and Proteins  
NUMBER OF SEQUENCES: 24

CORRESPONDENCE ADDRESS:  
ADDRESSER: Carella, Byrne, Bain, Gilfillan, Cecchi,  
ADDRESSER: Stewart & Olstein  
STREET: 6 Becker Farm Road  
CITY: Roseland  
STATE: NJ  
COUNTRY: USA  
ZIP: 07068-1739  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/469,667  
FILING DATE: 06-JUN-1995  
CLASSIFICATION: 536  
ATTORNEY/AGENT INFORMATION:  
NAME: Ferraro, Gregory D.  
REGISTRATION NUMBER: 36,134  
REFERENCE/DOCKET NUMBER: 325800-435  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 201-994-1700  
TELEFAX: 201-994-1744  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 878 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 2..685  
US-08-469-667-8  
Query Match 68.9%; Score 166.8; DB 1; Length 878;  
Best Local Similarity 91.6%; Pred. No. 1.9e-39;  
Matches 196; Conservative 1; Mismatches 15; Indels 2; Gaps 2;  
QY 1 GTTTATTCCTCCACAGACTCCGCCAGACACCTAGTCTCTGATGAAACGCTCTGCTCCTTG 60  
DB 625 GTTTATTCCTCCACAGACTCCGCCAGACACCTAGTCTCTGATGAAACGCTCTGCTCCTTG 684  
QY 61 T-CCTAATATTCATATCAACAGACACCTCTGGCATTCACATTTTAAATAATATGTGGA 119  
DB 685 TGCCTAATATTCATATCAACAGACACCTCTGGCATTCACATTTTAAATAATATGTGGA 744  
QY 120 AGTGATAGAGAACTGCAGCTGTCAATAGCCTAGGCTGAATTTTGTGAGATAATAA 179  
DB 745 AGTGATAGAGAACTGCAGCTGTCAATAGCCTAGGCTGAATTTTGTGAGATAATAA 803  
QY 180 AATAATCATTCATCCTTTTTTTTGTGATTAATAA 213  
DB 804 AATAATCATTCATCCTTTTTTTTGTGATTAATAA 837  
RESULT 4  
US-09-224-110-8  
Sequence 8, Application US/09224110  
Patent No. 6337195  
GENERAL INFORMATION:  
APPLICANT: Yu, Guo-Liang  
APPLICANT: Rosen, Craig  
TITLE OF INVENTION: Colon Specific Genes and Proteins  
NUMBER OF SEQUENCES: 24  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Carella, Byrne, Bain, Gilfillan, Cecchi,  
ADDRESSER: Stewart & Olstein  
STREET: 6 Becker Farm Road  
CITY: Roseland  
STATE: NJ  
COUNTRY: USA

; ZIP: 07068-1739  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/224,110  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/469,667  
; FILING DATE: 06-JUN-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Ferraro, Gregory D.  
; REGISTRATION NUMBER: 36,134  
; REFERENCE/DOCKET NUMBER: 325800-435  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 201-994-1700  
; TELEFAX: 201-994-1744  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 878 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 2..685  
; US-09-224-110-8

Query Match 68.9%; Score 166.8; DB 4; Length 878;  
Best Local Similarity 91.6%; Pred. No. 1.9e-39;  
Matches 196; Conservative 1; Mismatches 15; Indels 2; Gaps 2;

QY 1 GTTTATTCCTCCACAGACTCCGCCAGAGACACTAGTCTGTGATGAAACCTCTGCTCCTTG 60  
Db 625 GTTTATTCCTCCACAGACTCCGCCAGAGACACTAGTCTGTGATGAAACCTCTGCTCCTTG 684

QY 61 T-CCTAATATTCATATCAACAGACCACTCTCGGCATTCACATTTTAAAAAATATGTGGA 119  
Db 685 TGCCTAATATTCATATCAACAGACCACTCTCGGCATTCACATTTTAAAAAATATGTGGA 744

QY 120 AGTGATAGGAGAACTGCGAGCTGTCAATAGCTAGGCGTGAATTTTGTGCAGATAATAA 179  
Db 745 AGTGGTAGGAGAACTGCGAGCTGTCAATAGCTAGGCGTGAATTTTGTGCAGATAATAA 803

QY 180 AATAATCATTCATCCTCTTTTGTGATTATAAAA 213  
Db 804 AATAATSATTTTCANCCCTTTTGTGTTTATAAAA 837

RESULT 5  
PCT-US95-07289-8  
; Sequence 8, Application PC/TUS9507289  
; GENERAL INFORMATION:  
; APPLICANT: Yu, Guo-Liang  
; APPLICANT: Rosen, Craig  
; TITLE OF INVENTION: Colon Specific Genes and Proteins  
; NUMBER OF SEQUENCES: 24  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,  
; ADDRESS: Stewart & Olstein  
; STREET: 6 Becker Farm Road  
; CITY: Roseland  
; STATE: NJ  
; COUNTRY: USA  
; ZIP: 07068-1739  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US95/07289  
; FILING DATE: 06-JUN-1995  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Ferraro, Gregory D.  
; REGISTRATION NUMBER: 36,134  
; REFERENCE/DOCKET NUMBER: 325800-265  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 201-994-1700  
; TELEFAX: 201-994-1744  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 878 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 2..685  
; PCT-US95-07289-8

Query Match 68.9%; Score 166.8; DB 5; Length 878;  
Best Local Similarity 91.6%; Pred. No. 1.9e-39;  
Matches 196; Conservative 1; Mismatches 15; Indels 2; Gaps 2;

QY 1 GTTTATTCCTCCACAGACTCCGCCAGAGACACTAGTCTGTGATGAAACCTCTGCTCCTTG 60  
Db 625 GTTTATTCCTCCACAGACTCCGCCAGAGACACTAGTCTGTGATGAAACCTCTGCTCCTTG 684

QY 61 T-CCTAATATTCATATCAACAGACCACTCTCGGCATTCACATTTTAAAAAATATGTGGA 119  
Db 685 TGCCTAATATTCATATCAACAGACCACTCTCGGCATTCACATTTTAAAAAATATGTGGA 744

QY 120 AGTGATAGGAGAACTGCGAGCTGTCAATAGCTAGGCGTGAATTTTGTGCAGATAATAA 179  
Db 745 AGTGGTAGGAGAACTGCGAGCTGTCAATAGCTAGGCGTGAATTTTGTGCAGATAATAA 803

QY 180 AATAATCATTCATCCTCTTTTGTGATTATAAAA 213  
Db 804 AATAATSATTTTCANCCCTTTTGTGTTTATAAAA 837

RESULT 6  
US-09-623-624-5  
; Sequence 5, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23

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; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,110
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,168
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/980,872
; PRIOR FILING DATE: 1997-12-01
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 2745
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(2742)
US-09-623-624-5

Query Match      63.6%; Score 154; DB 4; Length 2745;
Best Local Similarity 100.0%; Prid. No. 1.5e-35;
Matches 154; Conservative 0; Mismatches 0; Indels 0; Gaps 0

Qy      1      GTTATTCTCCACAGACTCGGCAGAGACACCTAGTCTCCTGATGAAACGTCGTCTCTTG 60
Db      2592   GTTATTCTCCACAGACTCGGCAGAGACACCTAGTCTCCTGATGAAACGTCGTCTCTTG 2651

Qy      61      TCCTTAATTTCATATCAACAGCACCATTCCTGGCATTACATTTTAAAAAATTATGTGGAA 120
Db      2652   TCCTTAATTTCATATCAACAGCACCATTCCTGGCATTACATTTTAAAAAATTATGTGGAA 2711

Qy      121   GTGGATAGGAGAACTGCAGCTGTCAATAGCCTAG 154
Db      2712   GTGGATAGGAGAACTGCAGCTGTCAATAGCCTAG 2745

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RESULT 7

US-09-623-624-1

; Sequence 1, Application US/09623624

; Patent No. 6576434

; GENERAL INFORMATION:

; APPLICANT: Magainin Pharmaceuticals, Inc.

; TITLE OF INVENTION: Aschma-Associated Factors as Targets for Treating

; TITLE OF INVENTION: Aschma-Associated Factors, Including Asthma and Related

; TITLE OF INVENTION: Disorders

; FILE REFERENCE: 36870-5073-WO

; CURRENT APPLICATION NUMBER: US/09/623,624

; CURRENT FILING DATE: 2000-09-06

; PRIOR APPLICATION NUMBER: PCT/US99/04703

; PRIOR FILING DATE: 1999-03-03

; PRIOR APPLICATION NUMBER: US 08/697,360

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,419

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,440

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,471

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,471

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,472

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,473

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/702,105

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/702,110

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/702,168

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/980,872

; PRIOR FILING DATE: 1997-12-01

; NUMBER OF SEQ ID NOS: 18

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; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 2931
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (8)..(2746)
US-09-623-624-1

Query Match 38.0%; Score 92; DB 4; Length 2931;
Best Local Similarity 70.0%; Pred. No. 2e-17;
Matches 156; Conservative 0; Mismatches 57; Indels 10; Gaps 2;

Qy 21 CGGCAGAGACACCTAGTCTGATGAAACGTCCTCTCTTGTCTCTAATATTTCATATCAACA 80
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Qy 81 GCACCAATTCCTGGCATTCACATTTTAAAATTATGTGGAAGTGGATAGGAGAAGCTGCAGC 140
Db 2670 GCACCAATTCCTGGCATTCACGCTCTGAAGATAATGTGGAAGTGGCTAGGGGAAATGCAGG 2729

Qy 141 TGTCAATAGCCTAGGGCTGAATTTTGTTCAGATAAATAAATAAATCAATTCATCCCTTTT 200
Db 2730 TGACACTAGGTTTGCACATGAATTTT-----CAGGCAAGAAGAAATCAACCAAGTCATTC 2780

Qy 201 TTTGATTATAAAATTTTCT-AAAATGTAATTTAGACTTCTCTGT 242
Db 2781 TTTCACTGGAGAAATTTTCTAAAAATGTACTTTAGACTTCTCTGT 2823

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RESULT 8
US-08-916-421B-1/c
; Sequence 1, Application US/08916421B
; Patent No. 6503729
; GENERAL INFORMATION:
; APPLICANT: Bult et al.
; TITLE OF INVENTION: Complete Genome Sequence
; Patent No. 6503729
; TITLE OF INVENTION: jannaeschii
; FILE REFERENCE: PB275
; CURRENT APPLICATION NUMBER: US/08/916,421B
; CURRENT FILING DATE: 1997-08-22
; PRIOR APPLICATION NUMBER: US 60/024,428
; PRIOR FILING DATE: 1996-08-22
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 1664976
; TYPE: DNA
; ORGANISM: Methanococcus jannaeschii
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (28222)..(28222)
; OTHER INFORMATION: n equals a, t, c, or g
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; OTHER INFORMATION: n equals a, t, c, or g

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; LOCATION: (234814)..(234814)
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; LOCATION: (1084830)..(1084830)
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; OTHER INFORMATION: n equals a, t, c, or g
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; LOCATION: (1310988)..(1310988)
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; NAME/KEY: misc feature
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; OTHER INFORMATION: n equals a, t, c, or g
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; NAME/KEY: misc feature
; LOCATION: (1602912)..(1602912)
; OTHER INFORMATION: n equals a, t, c, or g
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; OTHER INFORMATION: n equals a, t, c, or g
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; LOCATION: (1637998)..(1637998)
; OTHER INFORMATION: n equals a, t, c, or g
; NAME/KEY: misc feature
; LOCATION: (1664854)..(1664854)
; OTHER INFORMATION: n equals a, t, c, or g
; US-08-916-421B-1
; Query Match 15.2%; Score 36.8; DB 4; Length 1664976;
; Best Local Similarity 55.5%; Pred. No. 2.7;
; Matches 71; Conservative 0; Mismatches 57; Indels 0; Gaps 0;
QY 112 TATGTGGAGTGGATAGGAGAACTGCAGCTGCAATAGCCTAGGGCTGAATTTTCTCAG 171
Db 38254 TATATATAGATTATATATAGATTATGATTTTCTATGAGGTATTTTGAAGTTATTTT 38195
QY 172 ATAAATAAATAAATCAATTCATCCCTTTTGTGATTATAAAATTTTCTAAATGTATTTT 231
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Db 38194 AGACATAAAATAATAATAATATTATTGTTTATAACTCTTCAAAATCTTTTA 38135  
QY 232 AGACTTC 239  
Db 38134 AAACATTC 38127

RESULT 9  
US-10-204-708-6  
; Sequence 6, Application US/10204708  
; Patent No. 6677731  
; GENERAL INFORMATION:  
; APPLICANT: OLEK, Alexander  
; APPLICANT: PIEPENBROCK, Christian  
; APPLICANT: BERLIN, Kurt  
; TITLE OF INVENTION: Diagnosis of Diseases Associated with DNA Replication  
; FILE REFERENCE: 5013.1012  
; CURRENT APPLICATION NUMBER: US/10/204,708  
; CURRENT FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: PCT/EP01/03971  
; PRIOR FILING DATE: 2001-04-06  
; PRIOR APPLICATION NUMBER: DE 10019058.8  
; PRIOR FILING DATE: 2000-04-06  
; PRIOR APPLICATION NUMBER: DE 10019173.8  
; PRIOR FILING DATE: 2000-04-07  
; PRIOR APPLICATION NUMBER: DE 10032529.7  
; PRIOR FILING DATE: 2000-06-30  
; PRIOR APPLICATION NUMBER: DE 10043826.1  
; PRIOR FILING DATE: 2000-09-01  
; NUMBER OF SEQ ID NOS: 98  
; SEQ ID NO 6 6669  
; LENGTH: 6669  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)  
US-10-204-708-6

Query Match 14.3%; Score 34.6; DB 4; Length 6669;  
Best Local Similarity 64.2%; Pred. No. 1.5;  
Matches 52; Conservative 0; Mismatches 29; Indels 0; Gaps 0;

QY 162 TTTTGTGAGATAAATAAATCAATTCATCCCTTTTGTATATAAATTTCTAA 221  
Db 3775 TTTTATTAAAGGATAAATAAAGCTAGTATGGTTTTTTTATTTAAATAATTTTGTA 3834

QY 222 AATGATTTTACACTTCCTGT 242  
Db 3835 TTTATATTTTATTATTGT 3855

RESULT 10  
US-08-118-469A-6  
; Sequence 6, Application US/08118469A  
; Patent No. 5656451  
; GENERAL INFORMATION:  
; APPLICANT: Flavell, Richard A.  
; APPLICANT: Fikrig, Erol  
; APPLICANT: Lam, Tuan T.  
; APPLICANT: Kantor, Fred S.  
; APPLICANT: Barthold, Stephen W.  
; TITLE OF INVENTION: NOVEL B. BURGDORFERI POLYPEPTIDES  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: c/o FISH & NEAVE  
; STREET: 1251 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 10022  
; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/118,469A  
; FILING DATE: 08-SEP-1993  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/099,757  
; FILING DATE: 30-JUL-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Haley Jr., James F.  
; REGISTRATION NUMBER: 27,794  
; REFERENCE/DOCKET NUMBER: YU-102CIP  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 596-9000  
; TELEFAX: (212) 596-9090  
; INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 805 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 130..711  
US-08-118-469A-6

Query Match 14.0%; Score 33.8; DB 1; Length 805;  
Best Local Similarity 49.7%; Pred. No. 1.1;  
Matches 86; Conservative 0; Mismatches 87; Indels 0; Gaps 0;

QY 70 TCATATCAACAGCACCATTCCTGCGCATTCACATTTTAAAAATTTATGTGGAAGTGGATAGG 129  
Db 1 TCATATTAATGAGCCCTCTGTTTCATTTTAAACATTTTAATTTTAAAGTGTTGTA 60

QY 130 AGAAGTGCAGCTGCTCAATAGCTAGGCTGAATTTTCTCAGATAAATAAATAATCAT 189  
Db 61 AAATAAATATTATTATTTGTAACCTTACTTTTAAATATGATTAATAAATAAATAAGG 120

QY 190 TCATCCCTTTTTCATATATAAATTTCTAAATGTTATTTAGACTTCCTGT 242  
Db 121 AGAATTTTATGATAAATAATGGTTTTTTTAAATAACTATTGTTCATTCCTTT 173

RESULT 11  
US-08-909-119-6  
; Sequence 6, Application US/08909119  
; Patent No. 5807685  
; GENERAL INFORMATION:  
; APPLICANT: Flavell, Richard A.  
; APPLICANT: Fikrig, Erol  
; APPLICANT: Lam, Tuan T.  
; APPLICANT: Kantor, Fred S.  
; APPLICANT: Barthold, Stephen W.  
; TITLE OF INVENTION: NOVEL B. BURGDORFERI POLYPEPTIDES  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: c/o FISH & NEAVE  
; STREET: 1251 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 10022  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25



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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/909,119
; FILING DATE: 11-AUG-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/118,469
; FILING DATE: 08-SEP-1993
; APPLICATION NUMBER: US 08/099,757
; FILING DATE: 30-JUL-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Haley Jr., James F.
; REGISTRATION NUMBER: 27,794
; REFERENCE/DOCKET NUMBER: YU-102CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 596-9000
; TELEFAX: (212) 596-9090
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 805 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 130..711
;
; US-08-909-119-6
;
; Query Match 14.0%; Score 33.8; DB 1; Length 805;
; Best Local Similarity 49.7%; Pred. No. 1.1;
; Matches 86; Conservative 0; Mismatches 87; Indels 0; Gaps 0;
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; QY 70 TCATATCAACAGCACCATTCCTGGCATTCACATTTTAAATAATATCTGGAAGTGGTAGG 129
; Db 1 TCATATTAATAAGACCTCTCGTTTCATTTTAAACATTTTAAATGTTTAAAGGTGTACA 60
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; QY 130 AGAAGTCAGCTGTCAATAGCCCTAGGCTGGAATTTTGTGCAGATAAATAAATAATCAT 189
; Db 61 AATAAATTTATTTATGTAACCTACTTTTATTTTAAATATGATTAATAATTAAGG 120
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; QY 190 TCATCCTTTTTTGAATATAAAATTTCTAAATGATTTTATAGACTTCCTGT 242
; Db 121 AGAATTTTATCTATAAAATGTTTCTTTTAACTATTTGTCATTTGCTTTT 173
;
; RESULT 12
; US-10-204-708-58
; Sequence 58, Application US/10204708
; Patent No. 667731
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: PIEPENBROCK, Christian
; APPLICANT: BERLIN, Kurt
; TITLE OF INVENTION: Diagnosis of Diseases Associated with DNA Replication
; TITLE OF INVENTION: by Assessing DNA Methylation
; FILE REFERENCE: 5013,1012
; CURRENT APPLICATION NUMBER: US/10/204,708
; CURRENT FILING DATE: 2003-05-06
; PRIOR APPLICATION NUMBER: PCT/EP01/03971
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: DE 10019058.8
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: DE 10032529.7
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: DE 10043826.1
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 98
; SEQ ID NO 58
; LENGTH: 6326
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; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
; US-10-204-708-58
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; Query Match 14.0%; Score 33.8; DB 4; Length 6326;
; Best Local Similarity 64.9%; Pred. No. 2.5;
; Matches 50; Conservative 0; Mismatches 27; Indels 0; Gaps 0;
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; QY 158 TGAATTTTGTGCAGATAAATAAATCAATTCATCCTTTTTTTGATTATAAAATTTT 217
; Db 2260 TTAATATTGTTAGTTAGTAAGAAATAATATATGAATTTTTTTGTTTATTAGTAT 2319
;
; QY 218 CTAAATGTAATTTTGA 234
; Db 2320 TATAAATGTAGTATTGA 2336
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; RESULT 13
; US-09-790-988-1/c
; Sequence 1, Application US/09790988
; Patent No. 6632935
; GENERAL INFORMATION:
; APPLICANT: SHIGENOBU, SHUJI
; APPLICANT: WATANABE, HIDEMI
; APPLICANT: HATTORI, MASAHIRO
; APPLICANT: SAKAKI, YOSHIYUKI
; TITLE OF INVENTION: GENOME DNA OF BACTERIAL SYMBIONT OF APHIDS
; FILE REFERENCE: 081356/0159
; CURRENT APPLICATION NUMBER: US/09/790,988
; CURRENT FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: JP2000-107160
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 1
; LENGTH: 640681
; TYPE: DNA
; ORGANISM: Buchnera sp.
; US-09-790-988-1
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; Query Match 14.0%; Score 33.8; DB 4; Length 640681;
; Best Local Similarity 54.4%; Pred. No. 14;
; Matches 68; Conservative 0; Mismatches 57; Indels 0; Gaps 0;
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; QY 107 AAAATATGTGCAAGTGGATAGGAGCACTGCAGCTGTCAATAGCCTAGGCTGAATTTT 166
; Db 127467 AAAAAAATCAGGATGTGCAGGGTTTCGCTACAGATGATGAATTAAGGCTTCAGAA 127408
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; QY 167 GTCAGATAAATAAATAATCAATTCATCCTTTTTTTGATTATAAAATTTCTAAATGT 226
; Db 127407 GAAAAAGAAAAGATGAAAAAGAGTAGTTTATCAAAATATTTTATATATATAT 127348
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; QY 227 ATTTT 231
; Db 127347 TTATT 127343
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; RESULT 14
; US-09-790-988-1
; Sequence 1, Application US/09790988
; Patent No. 6632935
; GENERAL INFORMATION:
; APPLICANT: SHIGENOBU, SHUJI
; APPLICANT: WATANABE, HIDEMI
; APPLICANT: HATTORI, MASAHIRO
; APPLICANT: SAKAKI, YOSHIYUKI
; TITLE OF INVENTION: GENOME DNA OF BACTERIAL SYMBIONT OF APHIDS
; FILE REFERENCE: 081356/0159
; CURRENT APPLICATION NUMBER: US/09/790,988
; CURRENT FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: JP2000-107160
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; PRIOR FILING DATE: 2000-04-07  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 640681  
; TYPE: DNA  
; ORGANISM: Buchnera sp.  
US-09-790-988-1

Query Match 13.9%; Score 33.6; DB 4; Length 640681;  
Best Local Similarity 48.9%; Pred. No. 16; Indels 0; Gaps 0;  
Matches 90; Conservative 0; Mismatches 94; Indels 0; Gaps 0;  
QY 54 CTCCTTGCTCCTAATATCATATCAACAGCACCATTCCTGGCATTCACATTTTAAAAATTA 113  
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QY 114 TGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCCTAGGCTGAAATTTTGTGCAGAT 173  
DB 237599 CGATAAGATGAATATTTTATTTTTCAGAAATAAAAAATTAATTTTATATAT 237658  
QY 174 AATAAATAAATCATTCATCTCTTTTGTGATTATAAAATTTCTATAAATGATTTTAG 233  
DB 237659 CTTTATATTCATCTCTCACTCTTTTAAATTTTATGATTTTAAATGTACAATATTTAAG 237718  
QY 234 ACTT 237  
DB 237719 TTTT 237722

RESULT 15  
US-09-543-681A-631/c  
; Sequence 631, Application US/09543681A  
; Patent No. 6605709  
; GENERAL INFORMATION:  
; APPLICANT: GARY BRETON  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS  
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 2709.1002-001  
; CURRENT APPLICATION NUMBER: US/09/543,681A  
; CURRENT FILING DATE: 2000-04-05  
; PRIOR APPLICATION NUMBER: US 60/128,706  
; PRIOR FILING DATE: 1999-04-09  
; NUMBER OF SEQ ID NOS: 8344  
; SEQ ID NO 631  
; LENGTH: 642  
; TYPE: DNA  
; ORGANISM: Proteus mirabilis  
US-09-543-681A-631

Query Match 13.8%; Score 33.4; DB 4; Length 642;  
Best Local Similarity 51.7%; Pred. No. 1.4; Indels 0; Gaps 0;  
Matches 76; Conservative 0; Mismatches 71; Indels 0; Gaps 0;  
QY 95 ATTCACATTTTAAAAATTTATGTGGAGTGTAGGAGAACTGCAGCTGTCAATAGCCTAG 154  
DB 242 ATTCGGAATTTTATTTATTTAGGCAAGTGTAGGAGAACTAGGCTATCTATTTGCGAG 183  
QY 155 GGCTGAATTTTGTGAGATAAAATAAAATCAATTCATCTCTTTTGTGATTATAAAAT 214  
DB 182 GATGTTGATATTACTGTCCACTAAATTAATAATATTGTTATTTTCTTTCTCTGTTGT 123  
QY 215 TTCTAAATGATTTTGTAGACTTCCTG 241  
DB 122 TTGCTATTATCTGCTAATACATTCATG 96

Search completed: April 24, 2004, 05:01:12  
Job time : 25.2447 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - protein search, using frame\_plus\_n2p model

Run on: April 21, 2004, 16:13:29 ; Search time 12.3491 Seconds  
(without alignments)  
2023.381 Million cell updates/sec

Title: US-09-049-696-16

Perfect score: 421

Sequence: 1 GTTATTCTCCACAGACTC.....ATGTATTTAGACTTCTCTGT 242

Scoring table:

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Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 778828

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Command line parameters:

-MODEL=frame+ n2p.model -DEV=xlp  
-O=/cgn2\_1/USPTO.spool.p/US09049696/runat.21042004.154838.21255/app\_query.fasta\_1.13694  
-DB=Issued\_Patents\_AA -QFMT=fastan -SUFFIX=n2p.ra -MINMATCH=0.1 -LOOPCL=0  
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi  
-LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15  
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000  
-USER=US09049696 @CGN 1.1 321 @runat.21042004.154838.21255 -NCPU=6 -ICPU=3  
-NO MMAP -LARGEQUERY -NEG\_SCORES=0 -WAIT -DSPLOCK=100 -LONGLOG  
-DEV\_TIMEOUT=120 -WARN\_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :  
1: /cgn2\_6/ptodata/2/iaa/5A.COMB.pep.\*  
2: /cgn2\_6/ptodata/2/iaa/5B.COMB.pep.\*  
3: /cgn2\_6/ptodata/2/iaa/6A.COMB.pep.\*  
4: /cgn2\_6/ptodata/2/iaa/6B.COMB.pep.\*  
5: /cgn2\_6/ptodata/2/iaa/PTCUS.COMB.pep.\*  
6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	278	66.0	914	US-09-193-562D-28	Sequence 28, Appl
2	278	66.0	914	US-09-623-624-6	Sequence 6, Appli
3	179.5	42.6	913	US-09-623-624-2	Sequence 2, Appli
4	116	27.6	228	US-08-469-667-9	Sequence 9, Appli
5	116	27.6	228	US-09-224-110-9	Sequence 9, Appli
6	116	27.6	228	PCT-US95-07289-9	Sequence 9, Appli
7	63.5	15.1	179	US-09-252-991A-26797	Sequence 26797, A
8	63	15.0	910	US-08-460-269C-2	Sequence 2, Appli
9	63	15.0	911	US-08-460-269C-4	Sequence 4, Appli
10	63	15.0	922	US-08-460-269C-6	Sequence 6, Appli
11	62.5	14.8	505	US-08-426-509A-17	Sequence 17, Appl
12	62.5	14.8	505	US-08-232-545-17	Sequence 17, Appl

13	62.5	14.8	505	5	PCT-US95-05008-17	Sequence 17, Appl
14	61	14.5	214	1	US-08-217-327-4	Sequence 4, Appli
15	61	14.5	933	2	US-08-313-200-1	Sequence 1, Appli
16	61	14.5	933	4	US-09-251-039-2	Sequence 2, Appli
17	61	14.5	933	5	PCT-US93-03837-1	Sequence 1, Appli
18	61	14.5	1070	3	US-08-922-635-22	Sequence 22, Appl
19	61	14.5	1504	4	US-09-364-206-2	Sequence 2, Appli
20	60.5	14.4	386	4	US-09-328-352-4722	Sequence 4722, Ap
21	60.5	14.5	401	4	US-09-464-535-44	Sequence 44, Appl
22	60.5	14.4	878	3	US-09-141-213-8	Sequence 8, Appli
23	60.5	14.4	878	3	US-09-561-138-8	Sequence 8, Appli
24	60	14.3	174	4	US-09-131-237C-2	Sequence 2, Appli
25	60	14.3	197	4	US-08-936-165A-509	Sequence 509, App
26	60	14.3	227	4	US-09-252-991A-30379	Sequence 30379, A
27	60	14.4	408	2	US-08-742-440A-6	Sequence 6, Appli
28	60	14.3	420	4	US-09-107-532A-4094	Sequence 4094, Ap
29	59.5	14.1	111	4	US-09-134-001C-3084	Sequence 1084, Ap
30	59.5	14.1	520	4	US-09-292-858B-12	Sequence 12, Appl
31	59	14.0	323	3	US-09-029-213B-25	Sequence 25, Appl
32	59	14.0	608	4	US-09-284-768A-4	Sequence 4, Appli
33	59	14.0	657	4	US-09-284-768A-7	Sequence 7, Appli
34	59	14.0	1191	4	US-09-540-236-2902	Sequence 2902, Ap
35	58.5	13.9	128	4	US-09-489-039A-10886	Sequence 10886, A
36	58.5	13.9	1466	4	US-09-262-537-20	Sequence 20, Appl
37	58.5	13.9	1471	4	US-08-811-519-1	Sequence 1, Appli
38	58	13.9	100	4	US-09-543-681A-8106	Sequence 8106, Ap
39	58	13.9	539	4	US-09-614-912-144	Sequence 144, App
40	58	13.8	1401	4	US-09-976-594-1035	Sequence 1035, Ap
41	58	13.9	1584	3	US-09-251-645-6	Sequence 6, Appli
42	57	13.5	211	4	US-08-529-055-67	Sequence 67, Appl
43	57	13.5	659	4	US-09-562-737-12	Sequence 12, Appl
44	57	13.5	1079	3	US-09-058-489-22	Sequence 22, Appl
45	57	13.5	1240	3	US-09-058-489-23	Sequence 23, Appl

ALIGNMENTS

RESULT 1  
US-09-193-562D-28  
; Sequence 28, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Paulli, Benedict U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 28  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-193-562D-28

Alignment Scores:  
Pred. No.: 2,33e-28 Length: 914  
Score: 278.00 Matches: 50  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 66.03% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-16 (1-242) x US-09-193-562D-28 (1-914)

QY	2	TTTATTCTCCACAGACTCCGACAGACACCTAGTCTCTGTAACACGCTGCTCTGT	61
Db	865	PhelleProGlnThrProGluThrProSerProAspGluThrSerAlaProCys	884
QY	62	CCTAATATTCATCATCAACAGACACCTCTGCGATTTCACATTTAAAAATATGTGGAAG	121



NUMBER OF SEQUENCES: 24  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,  
ADDRESSEE: Stewart & Olstein  
STREET: 6 Becker Farm Road  
CITY: Roseland  
STATE: NJ  
COUNTRY: USA  
ZIP: 07068-1739  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/469,667  
FILING DATE: 06-JUN-1995  
CLASSIFICATION: 536  
ATTORNEY/AGENT INFORMATION:  
NAME: Ferraro, Gregory D.  
REGISTRATION NUMBER: 36,134  
REFERENCE/DOCKET NUMBER: 325800-435  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 201-994-1700  
TELEFAX: 201-994-1744  
INFORMATION FOR SEQ ID NO: 9:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 228 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-469-667-9

Alignment Scores:  
Pred. No.: 4.94e-07 Length: 228  
Score: 116.00 Matches: 20  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 27.55% Indels: 0  
DB: 1 Gaps: 0  
US-09-049-696-16 (1-242) x US-08-469-667-9 (1-228)

QY 2 TTTATTCTCCACAGACTCCGACAGACACCTAGTCTGTGATGAACGTCCTCTTGT 61  
|||||  
Db 209 PheIIeProGlnThrProGluThrProSerProAspGluThrSerAlaProCys 228

RESULT 5  
US-09-224-110-9  
Sequence 9, Application US/09224110  
Patent No. 6337195  
GENERAL INFORMATION:  
APPLICANT: Yu, Guo-Liang  
APPLICANT: Rosen, Craig  
TITLE OF INVENTION: Colon Specific Genes and Proteins  
NUMBER OF SEQUENCES: 24  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,  
ADDRESSEE: Stewart & Olstein  
STREET: 6 Becker Farm Road  
CITY: Roseland  
STATE: NJ  
COUNTRY: USA  
ZIP: 07068-1739  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/224,110  
FILING DATE:  
CLASSIFICATION:

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/469,667  
FILING DATE: 06-JUN-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Ferraro, Gregory D.  
REGISTRATION NUMBER: 36,134  
REFERENCE/DOCKET NUMBER: 325800-435  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 201-994-1700  
TELEFAX: 201-994-1744  
INFORMATION FOR SEQ ID NO: 9:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 228 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-224-110-9  
Alignment Scores:  
Pred. No.: 4.94e-07 Length: 228  
Score: 116.00 Matches: 20  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 27.55% Indels: 0  
DB: 4 Gaps: 0  
US-09-049-696-16 (1-242) x US-09-224-110-9 (1-228)

QY 2 TTTATTCTCCACAGACTCCGACAGACACCTAGTCTGTGATGAACGTCCTCTTGT 61  
|||||  
Db 209 PheIIeProGlnThrProGluThrProSerProAspGluThrSerAlaProCys 228

RESULT 6  
PCT-US95-07289-9  
Sequence 9, Application PC/TUS9507289  
GENERAL INFORMATION:  
APPLICANT: Yu, Guo-Liang  
APPLICANT: Rosen, Craig  
TITLE OF INVENTION: Colon Specific Genes and Proteins  
NUMBER OF SEQUENCES: 24  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,  
ADDRESSEE: Stewart & Olstein  
STREET: 6 Becker Farm Road  
CITY: Roseland  
STATE: NJ  
COUNTRY: USA  
ZIP: 07068-1739  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/07289  
FILING DATE: 06-JUN-1995  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Ferraro, Gregory D.  
REGISTRATION NUMBER: 36,134  
REFERENCE/DOCKET NUMBER: 325800-265  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 201-994-1700  
TELEFAX: 201-994-1744  
INFORMATION FOR SEQ ID NO: 9:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 228 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
PCT-US95-07289-9  
Alignment Scores:

Pred. No.: 4,94e-07 Length: 228  
Score: 116.00 Matches: 20  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 27.55% Indels: 0  
DB: 5 Gaps: 0

US-09-049-696-16 (1-242) x PCT-US95-07289-9 (1-228)

QY 2 TTATTCTCCAGACTCCGCGAGAGACACTAGTCTCTGATGAACGTCCTCTCTTGT 61  
Db 209 PheileProGlnThrProGluThrProSerProAspGluThrSerAlaProCys 228

RESULT 7  
US-09-252-991A-26797  
; Sequence 26797, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; PRIOR FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 26797  
; LENGTH: 179  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-26797

Alignment Scores:  
Pred. No.: 4.17 Length: 179  
Score: 63.50 Matches: 13  
Percent Similarity: 54.84% Conservative: 4  
Best Local Similarity: 41.94% Mismatches: 13  
Query Match: 15.08% Indels: 1  
DB: 4 Gaps: 1

US-09-049-696-16 (1-242) x US-09-252-991A-26797 (1-179)

QY 8 CTCCAGACTCCGCGAGAGACACTAGTCTCTGATGAACGTCCTCTGCTCTTAAT 67  
Db 147 ProAsnSerAlaProProGlnThrProGlyPro--AlaAlaGlySerProLysProSer 165

QY 68 ATTATATCAACAGACACCATCTCTGCGATTTCAC 100  
Db 166 ArgTyrArgProThrThrCysProGlyIleHis 176

RESULT 8  
US-08-460-269C-2  
; Sequence 2, Application US/08460269C  
; Patent No. 6197548  
; GENERAL INFORMATION:  
; APPLICANT: CLARE, JEFFREY J.  
; ROMANOS, MICHAEL A.  
; TITLE OF INVENTION: EXPRESSION OF HETEROLOGOUS PROTEIN IN  
; NUMBER OF SEQUENCES: 17  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Millen, White, Zelano & Branigan, P.C.  
; STREET: 2200 Clarendon Blvd., Suite 1400  
; CITY: ARLINGTON  
; STATE: VA  
; COUNTRY: USA  
; ZIP: 22201  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/460,269C  
; FILING DATE: 02-Jun-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Lebovitz, Richard M.  
; REGISTRATION NUMBER: 37,067  
; REFERENCE/DOCKET NUMBER: Popov-2  
; TELECOMMUNICATION INFORMATION:

OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/460,269C  
FILING DATE: 02-Jun-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Lebovitz, Richard M.  
REGISTRATION NUMBER: 37,067  
REFERENCE/DOCKET NUMBER: Popov-2  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703) 243-6333  
TELEFAX: (703) 243-6410  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 910 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
US-08-460-269C-2

Alignment Scores:  
Pred. No.: 6.33 Length: 910  
Score: 63.00 Matches: 19  
Percent Similarity: 47.46% Conservative: 9  
Best Local Similarity: 32.20% Mismatches: 15  
Query Match: 14.96% Indels: 16  
DB: 3 Gaps: 4

US-09-049-696-16 (1-242) x US-08-460-269C-2 (1-910)

QY 8 CTCCAGACTCCGCGAGAGACACTAGTCTCTGAT-----GAAAGCTCT 52  
Db 588 ProProGlnProGlnProGluAlaProAlaProGlnProProAlaGlyArgGluLeuSer 607

QY 53 GCTCCTTGTCTTATATATTCATATCAACAGACACCATCTCTGCGATTTCACATTTTAAAAATT 112  
Db 608 Ala---AlaAlaAsnAlaAlaValAsnThr-----GlyGlyValcylLeuAlaSerThr 624

QY 113 ATGTGG-----AAGTGGATAGAGAACTGCGAGCTGTCA 145  
Db 625 LeuTrpTyrAlaGluSerAsnAlaLeuSerLysArgLeuGlyGluLeuArgLeuAsn 643

RESULT 9  
US-08-460-269C-4  
; Sequence 4, Application US/08460269C  
; Patent No. 6197548  
; GENERAL INFORMATION:  
; APPLICANT: CLARE, JEFFREY J.  
; ROMANOS, MICHAEL A.  
; TITLE OF INVENTION: EXPRESSION OF HETEROLOGOUS PROTEIN IN  
; NUMBER OF SEQUENCES: 17  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Millen, White, Zelano & Branigan, P.C.  
; STREET: 2200 Clarendon Blvd., Suite 1400  
; CITY: ARLINGTON  
; STATE: VA  
; COUNTRY: USA  
; ZIP: 22201  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/460,269C  
; FILING DATE: 02-Jun-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Lebovitz, Richard M.  
; REGISTRATION NUMBER: 37,067  
; REFERENCE/DOCKET NUMBER: Popov-2  
; TELECOMMUNICATION INFORMATION:

TELEPHONE: (703) 243-6333  
TELEFAX: (703) 243-6410  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 911 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
US-08-460-269C-4

Alignment Scores:  
Pred. No.: 6.33 Length: 911  
Score: 63.00 Matches: 19  
Percent Similarity: 47.46% Conservative: 9  
Best Local Similarity: 32.20% Mismatches: 15  
Query Match: 14.96% Indels: 16  
DB: 3 Gaps: 4

US-09-049-696-16 (1-242) x US-08-460-269C-4 (1-911)

QY 8 CTCCACAGACTCCGCCAGACACCTAGTCTCTGAT-----GAAAGCTCT 52  
Db 589 ProProGlnArgGlnProGluAlaProAlaProGlnProProAlaGlyArgGluLeuSer 608  
QY 53 GTCCTTGTCCTTAATATTCATATCAACAGCACCATTCCTGGCATTCCACATTTTAAATAATT 112  
Db 609 Ala---AlaAlaAsnAlaAlaValaAsnThr-----GlyGlyValGlyLeuAlaSerThr 625  
QY 113 ATGTGG-----AGTGGATAGGAGAACTGCAGCTGTCA 145  
Db 626 LeuTptTyAlaGluSerAsnAlaLeuSerLysArgLeuGlyGluLeuArgLeuAsn 644

RESULT 10  
US-08-460-269C-6  
; Sequence 6, Application US/08460269C  
; Patent No. 6197548  
; GENERAL INFORMATION:  
; APPLICANT: CLARE, JEFFREY J.  
; ROMANOS, MICHAEL A.  
; TITLE OF INVENTION: EXPRESSION OF HETEROLOGOUS PROTEIN IN YEAST  
; NUMBER OF SEQUENCES: 17  
; CORRESPONDENCE ADDRESS:  
; ADDRESSES: Millen, White, Zelano & Branigan, P.C.  
; STREET: 2200 Clarendon Blvd., Suite 1400  
; CITY: ARLINGTON  
; STATE: VA  
; COUNTRY: USA  
; ZIP: 22201  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/460,269C  
; FILING DATE: 02-Jun-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Lebovitz, Richard M.  
; REGISTRATION NUMBER: 37,067  
; REFERENCE/DOCKET NUMBER: Popov-2  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703) 243-6333  
; TELEFAX: (703) 243-6410  
; INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 922 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
US-08-460-269C-6

TELEPHONE: (703) 243-6333  
TELEFAX: (703) 243-6410  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 911 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
US-08-460-269C-4

Alignment Scores:  
Pred. No.: 6.33 Length: 911  
Score: 63.00 Matches: 19  
Percent Similarity: 47.46% Conservative: 9  
Best Local Similarity: 32.20% Mismatches: 15  
Query Match: 14.96% Indels: 16  
DB: 3 Gaps: 4

US-09-049-696-16 (1-242) x US-08-460-269C-6 (1-922)

QY 8 CTCCACAGACTCCGCCAGACACCTAGTCTCTGAT-----GAAAGCTCT 52  
Db 600 ProProGlnArgGlnProGluAlaProAlaProGlnProProAlaGlyArgGluLeuSer 619  
QY 53 GTCCTTGTCCTTAATATTCATATCAACAGCACCATTCCTGGCATTCCACATTTTAAATAATT 112  
Db 620 Ala---AlaAlaAsnAlaAlaValaAsnThr-----GlyGlyValGlyLeuAlaSerThr 636  
QY 113 ATGTGG-----AGTGGATAGGAGAACTGCAGCTGTCA 145  
Db 637 LeuTptTyAlaGluSerAsnAlaLeuSerLysArgLeuGlyGluLeuArgLeuAsn 655

RESULT 11  
US-08-426-509A-17  
; Sequence 17, Application US/08426509A  
; Patent No. 6326469  
; GENERAL INFORMATION:  
; APPLICANT: Ullrich, Axel  
; APPLICANT: Gishizky, Mikhail  
; APPLICANT: Sures, Irman G.  
; TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN  
; TITLE OF INVENTION: TYROSINE KINASES  
; NUMBER OF SEQUENCES: 21  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Pennie & Edmonds  
; STREET: 1155 Avenue of the Americas  
; CITY: New York,  
; STATE: NY  
; COUNTRY: USA  
; ZIP: 10036-2711  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/426,509A  
; FILING DATE: 21-APR-1995  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/232,545  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Coruzzi, Laura A  
; REGISTRATION NUMBER: 30,742  
; REFERENCE/DOCKET NUMBER: 7683-0074-999  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 212-790-9090  
; TELEFAX: 212-869-9741  
; TELEX: 66141 PENNIE  
; INFORMATION FOR SEQ ID NO: 17:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 505 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: unknown  
; TOPOLOGY: unknown  
; US-08-426-509A-17

Alignment Scores:  
Pred. No.: 6.69 Length: 505  
Score: 62.50 Matches: 14  
Percent Similarity: 48.28% Conservative: 0

Best Local Similarity: 48.28% Mismatches: 14  
Query Match: 14.85% Indels: 1  
DB: 4 Gaps: 1

US-09-049-696-16 (1-242) x US-08-426-509A-17 (1-505)

QY 11 CCACAGACTCCGCCAGACACCTAGTCTGTGATGAACGCTGCTCTGTCTTAATATT 70  
DB 25 ProHisCysProValTyValProAspProThrSerThrIleLysProGlyProAsnSer 44  
QY 71 CATATCAACAGCAGCACCATTCTGGCATT 97  
DB 45 His---AsnSerAsnThrProGlyIle 52

## RESULT 12

US-08-232-545-17  
; Sequence 17, Application US/08232545  
; Patent No. 6506578  
; GENERAL INFORMATION:  
; APPLICANT: Ullrich, Axel  
; APPLICANT: Gishizky, Mikhail  
; APPLICANT: Sures, Iman G.  
; TITLE OF INVENTION: No. 6506578el Megakaryocytic Protein Tyrosine  
; TITLE OF INVENTION: Kinases  
; NUMBER OF SEQUENCES: 21  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Pennie & Edmonds  
; STREET: 1155 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 10036  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/232,545  
; FILING DATE: 22-APR-1994  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Coruzzi, Laura A.  
; REGISTRATION NUMBER: 30,742  
; REFERENCE/DOCKET NUMBER: 7683-050  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212)790-9090  
; TELEFAX: (212)869-9741  
; INFORMATION FOR SEQ ID NO: 17:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 505 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: unknown  
; TOPOLOGY: unknown  
; MOLECULE TYPE: protein  
US-08-232-545-17

Alignment Scores:  
Pred. No.: 6.69 Length: 505  
Score: 62.50 Matches: 14  
Percent Similarity: 48.28% Conservative: 0  
Best Local Similarity: 48.28% Mismatches: 14  
Query Match: 14.85% Indels: 1  
DB: 4 Gaps: 1

US-09-049-696-16 (1-242) x US-08-232-545-17 (1-505)

QY 11 CCACAGACTCCGCCAGACACCTAGTCTGTGATGAACGCTGCTCTGTCTTAATATT 70  
DB 25 ProHisCysProValTyValProAspProThrSerThrIleLysProGlyProAsnSer 44  
QY 71 CATATCAACAGCAGCACCATTCTGGCATT 97

DB 45 His---AsnSerAsnThrProGlyIle 52

## RESULT 13

PCT-US95-05008-17  
; Sequence 17, Application PC/TUS9505008  
; GENERAL INFORMATION:  
; APPLICANT: Sugen, Inc.  
; APPLICANT: 515 Galveston Drive  
; APPLICANT: Redwood City, California 94063-4720  
; APPLICANT: United States of America  
; APPLICANT: Missenschaften E.V.  
; APPLICANT: Hofgarten Str. 2  
; APPLICANT: Munchen 80539  
; APPLICANT: Germany  
; TITLE OF INVENTION: Novel Megakaryocytic Protein Tyrosine  
; TITLE OF INVENTION: Kinases  
; NUMBER OF SEQUENCES: 21  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Pennie & Edmonds  
; STREET: 1155 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 10036  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US95/05008  
; FILING DATE: 24-APR-1995  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/232,545  
; FILING DATE: 22-APR-1994  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Coruzzi, Laura A.  
; REGISTRATION NUMBER: 30,742  
; REFERENCE/DOCKET NUMBER: 7683-074  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212)790-9090  
; TELEFAX: (212)869-9741  
; TELEX: 66141 PENNIE  
; INFORMATION FOR SEQ ID NO: 17:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 505 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: unknown  
; TOPOLOGY: unknown  
; MOLECULE TYPE: protein  
PCT-US95-05008-17

Alignment Scores:  
Pred. No.: 6.69 Length: 505  
Score: 62.50 Matches: 14  
Percent Similarity: 48.28% Conservative: 0  
Best Local Similarity: 48.28% Mismatches: 14  
Query Match: 14.85% Indels: 1  
DB: 5 Gaps: 1

US-09-049-696-16 (1-242) x PCT-US95-05008-17 (1-505)

QY 11 CCACAGACTCCGCCAGACACCTAGTCTGTGATGAACGCTGCTCTGTCTTAATATT 70  
DB 25 ProHisCysProValTyValProAspProThrSerThrIleLysProGlyProAsnSer 44  
QY 71 CATATCAACAGCAGCACCATTCTGGCATT 97  
DB 45 His---AsnSerAsnThrProGlyIle 52



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RESULT 14
US-08-217-327-4
; Sequence 4, Application US/08217327
; Patent No. 5474925
; GENERAL INFORMATION:
; APPLICANT: John, Maliyakal E
; APPLICANT: Barton, Kenneth A
; TITLE OF INVENTION: Immobilized Proteins in Cotton Fiber
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Quarles and Brady
; STREET: P.O. Box 2113
; CITY: Madison
; STATE: WI
; COUNTRY: USA
; ZIP: 53701-2113
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/217,327
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/812,233
; FILING DATE: 19-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Seay, Nicholas J
; REGISTRATION NUMBER: 27,386
; REFERENCE/DOCKET NUMBER: 1122990831
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 608-251-5000
; TELEFAX: 608-251-9166
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 214 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-217-327-4

Alignment Scores:
Pred. No.: 9.19 Length: 214
Score: 61.00 Matches: 12
Percent Similarity: 46.67% Conservative: 2
Best Local Similarity: 40.00% Mismatches: 16
Query Match: 14.49% Indels: 0
DB: 1 Gaps: 0

US-09-049-696-16 (1-242) x US-08-217-327-4 (1-214)
Qy 8 CTTCCACAGACTCGGCAGAGACCTAGTCCTGTGTAACAGTCTGCTGTC
Db 124 ProProAlaThrProProAlaThrProProAlaThrProProAlaThrProPro
Qy 68 ATTCAATATCAACAGCACCATTCTCGGCATT 97
Db 144 AlaSerProProAlaThrValProAlaIle 153

RESULT 15
US-08-313-200-1
; Sequence 1, Application US/08313200
; Patent No. 5998153
; GENERAL INFORMATION:
; APPLICANT: Baker, James R.
; APPLICANT: Koenig, Ronald J.
; TITLE OF INVENTION: THYROID PEROXIDASE EPITOPIC REGIONS
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 755 Page Mill Road

```

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CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/313.200
FILING DATE: 08-NOV-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Kanski, Antoinette F.
REGISTRATION NUMBER: 34,202
REFERENCE/DOCKET NUMBER: 20344-20658.20
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 813-5600
TELEFAX: (415) 494-0792
TELEX: 7061141
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 933 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
DEVELOPMENTAL STAGE: Mature
TISSUE TYPE: Thyroid gland(from people with Grave's
TISSUE TYPE: disease)
IMMEDIATE SOURCE:
CLONE: phtPO-2.8
FEATURE:
NAME/KEY: Peptide
LOCATION: join(1..3, 456..631)
OTHER INFORMATION: /note= "TPO region within fusion
OTHER INFORMATION: plasmid: TPO(delta4-455)"
FEATURE:
NAME/KEY: Peptide
LOCATION: 1..120
OTHER INFORMATION: /note= "C-terminal truncation:
OTHER INFORMATION: TPO(1-120)"
FEATURE:
NAME/KEY: Region
LOCATION: 1..400
OTHER INFORMATION: /note= "TPO epitopic region within
OTHER INFORMATION: fusion protein: MBP-TPO (AA 1-400)"
FEATURE:
NAME/KEY: Peptide
LOCATION: 1..455
OTHER INFORMATION: /note= "C-terminal truncation-
OTHER INFORMATION: TPO(1-455) or N-terminal half of TPO"
FEATURE:
NAME/KEY: Peptide
LOCATION: 1..631
OTHER INFORMATION: /note= "C-terminal truncation:
OTHER INFORMATION: TPO(1-631)"
FEATURE:
NAME/KEY: Region
LOCATION: 266..281
OTHER INFORMATION: /note= "TPO epitopic or binding
OTHER INFORMATION: region"
FEATURE:
NAME/KEY: Region
LOCATION: 376..631
OTHER INFORMATION: /note= "TPO epitopic region within
OTHER INFORMATION: fusion protein: MBP-TPO (AA 376-631)"

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NAME/KEY: Region
LOCATION: join(455..532, 590..933)
OTHER INFORMATION: /note= "alternatively spliced
OTHER INFORMATION: C-terminus of TPO"
FEATURE:
NAME/KEY: Region
LOCATION: 455..933
OTHER INFORMATION: /note= "TPO C-terminus containing
OTHER INFORMATION: binding region"
FEATURE:
NAME/KEY: Region
LOCATION: 456..631
OTHER INFORMATION: /note= "TPO binding or epitopic
OTHER INFORMATION: region"
FEATURE:
NAME/KEY: Region
LOCATION: 456..633
OTHER INFORMATION: /note= "TPO binding or epitopic
OTHER INFORMATION: region"
FEATURE:
NAME/KEY: Region
LOCATION: 456..933
OTHER INFORMATION: /note= "TPO binding or epitopic
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FEATURE:
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LOCATION: 457..517
OTHER INFORMATION: /note= "non-reactive fragment"
FEATURE:
NAME/KEY: Region
LOCATION: 457..633
OTHER INFORMATION: /note= "TPO region within fusion
OTHER INFORMATION: plasmid pMalTPO"
FEATURE:
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LOCATION: 457..933
OTHER INFORMATION: /note= "TPO binding region within
OTHER INFORMATION: plasmid pMalTPO"
FEATURE:
NAME/KEY: Region
LOCATION: 465..933
OTHER INFORMATION: /note= "TPO binding region of
OTHER INFORMATION: maltose binding region fusion construct"
FEATURE:
NAME/KEY: Region
LOCATION: 513..633
OTHER INFORMATION: /note= "recombinant TPO"
FEATURE:
NAME/KEY: Region
LOCATION: 517..630
OTHER INFORMATION: /note= "TPO binding or epitopic
OTHER INFORMATION: region"
FEATURE:
NAME/KEY: Region
LOCATION: 517..633
OTHER INFORMATION: /note= "TPO binding or epitopic
OTHER INFORMATION: region"
FEATURE:
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LOCATION: 573..633
OTHER INFORMATION: /note= "TPO binding or epitopic
OTHER INFORMATION: region"
FEATURE:
NAME/KEY: Region
LOCATION: 590..611
OTHER INFORMATION: /note= "TPO region within maltose
OTHER INFORMATION: binding fusion protein"
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FEATURE:
NAME/KEY: Region
LOCATION: 590..615
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OTHER INFORMATION: region"
FEATURE:
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LOCATION: 590..675
OTHER INFORMATION: /note= "TPO binding or epitopic
OTHER INFORMATION: region"
FEATURE:
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LOCATION: 592..613
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OTHER INFORMATION: region"
FEATURE:
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LOCATION: 596..611
OTHER INFORMATION: /note= "Tpo region within fusion
OTHER INFORMATION: protein"
FEATURE:
NAME/KEY: Region
LOCATION: 602..615
OTHER INFORMATION: /note= "TPO region containing
OTHER INFORMATION: divergent sequences"
FEATURE:
NAME/KEY: Region
LOCATION: 611..615
OTHER INFORMATION: /note= "TPO binding or epitopic
OTHER INFORMATION: region"
FEATURE:
NAME/KEY: Region
LOCATION: 631..933
OTHER INFORMATION: /note= "TPO binding or epitopic
OTHER INFORMATION: region"
FEATURE:
NAME/KEY: Region
LOCATION: 632..933
OTHER INFORMATION: /note= "TPO region within maltose
OTHER INFORMATION: binding fusion protein"
FEATURE:
NAME/KEY: Region
LOCATION: 633..768
OTHER INFORMATION: /note= "TPO binding or epitopic
OTHER INFORMATION: region"
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Pred. No.: 11.7 Length: 933
Score: 61.00 Matches: 15
Percent Similarity: 44.44% Conservative: 5
Best Local Similarity: 33.33% Mismatches: 19
Query Match: 14.49% Indels: 6
Db: 2 Gaps: 2
US-09-049-696-16 (1-242) x US-08-313-200-1 (1-933)
QY 2 TTTATTCTCCACAGACTCCG-----CCAGAGACACCTAGTCTCATGAAACG 49
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 366 PheValProProArgProAlaalaCysAlaProGluProGlyIleProGlyGluThr 385
QY 50 TCTGCTCCTTGT-----CCTAATATTCATATCAACACACCATTCCTGGCATTCCATT 103
|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 386 ArgGlyProCysPheLeuAlaGlyAspGlyArgAlaSerGluValProSerLeuThrAla 405
QY 104 TTAATAATTATGTGG 118
|||:|||||:
Db 406 LeuHisThrLeuTrp 410
Search completed: April 21, 2004, 16:22:27
JOB time : 14.3491 secs
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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 24, 2004, 04:05:52 ; Search time 132.72 Seconds  
(without alignments)  
8424.829 Million cell updates/sec

Title: US-09-049-696-14

Perfect score: 248

Sequence: 1 ACCTGAAGCGGAATTCAC.....TTGAAATGGCAGACATCTT 248

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 2907579 seqs, 2254313464 residues

Total number of hits satisfying chosen parameters: 5815158

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA.\*

- 1: /cgn2\_6/ptodata/2/pubpna/US07\_PUBCOMB.seq.\*
- 2: /cgn2\_6/ptodata/2/pubpna/PCT\_NEW\_PUB.seq.\*
- 3: /cgn2\_6/ptodata/2/pubpna/US05\_NEW\_PUB.seq.\*
- 4: /cgn2\_6/ptodata/2/pubpna/US06\_PUBCOMB.seq.\*
- 5: /cgn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq.\*
- 6: /cgn2\_6/ptodata/2/pubpna/PCTUS\_PUBCOMB.seq.\*
- 7: /cgn2\_6/ptodata/2/pubpna/US08\_NEW\_PUB.seq.\*
- 8: /cgn2\_6/ptodata/2/pubpna/US08\_PUBCOMB.seq.\*
- 9: /cgn2\_6/ptodata/2/pubpna/US09A\_PUBCOMB.seq.\*
- 10: /cgn2\_6/ptodata/2/pubpna/US09B\_PUBCOMB.seq.\*
- 11: /cgn2\_6/ptodata/2/pubpna/US09C\_PUBCOMB.seq.\*
- 12: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq.\*
- 13: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq.\*
- 14: /cgn2\_6/ptodata/2/pubpna/US10A\_PUBCOMB.seq.\*
- 15: /cgn2\_6/ptodata/2/pubpna/US10B\_PUBCOMB.seq.\*
- 16: /cgn2\_6/ptodata/2/pubpna/US10C\_PUBCOMB.seq.\*
- 17: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq.\*
- 18: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq.\*
- 19: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	248	100.0	878	13	US-09-988-292-8
2	248	100.0	1512	16	US-10-305-720-850
3	248	100.0	2745	15	US-10-270-595-5
4	248	100.0	2854	15	US-10-106-698-1971
5	248	100.0	3007	15	US-10-055-412B-27
6	248	100.0	3109	15	US-10-106-698-2111
7	248	100.0	3111	9	US-09-823-356-25
8	248	100.0	3111	9	US-09-823-356-25
9	248	100.0	3111	15	US-10-235-994-25
10	248	100.0	3267	9	US-09-764-868-22
11	248	100.0	3311	9	US-09-922-217-1056
12	248	100.0	3311	9	US-09-833-263-1056
13	248	100.0	3311	14	US-10-025-380-1056
14	248	100.0	3311	15	US-10-393-590-11

15	248	100.0	3311	15	US-10-393-590-12	Sequence 12, Appl
16	248	100.0	3311	15	US-10-393-590-46	Sequence 46, Appl
17	248	100.0	3311	15	US-10-393-590-47	Sequence 47, Appl
18	248	100.0	3311	15	US-10-393-567-11	Sequence 11, Appl
19	248	100.0	3311	15	US-10-393-567-12	Sequence 12, Appl
20	248	100.0	3311	15	US-10-393-567-46	Sequence 46, Appl
21	248	100.0	3311	15	US-10-393-567-47	Sequence 47, Appl
22	248	100.0	3311	15	US-10-394-087-11	Sequence 11, Appl
23	248	100.0	3311	15	US-10-394-087-12	Sequence 12, Appl
24	248	100.0	3311	15	US-10-394-087-46	Sequence 46, Appl
25	248	100.0	3311	15	US-10-394-087-47	Sequence 47, Appl
26	248	100.0	4569	10	US-09-867-034-3	Sequence 3, Appl
27	248	100.0	4569	13	US-10-276-115-3	Sequence 3, Appl
28	246.4	99.4	2867	15	US-10-106-698-351	Sequence 351, App
29	207.4	83.6	218	9	US-09-815-343-297	Sequence 297, App
30	207.4	83.6	218	13	US-10-097-105-297	Sequence 297, App
31	207.4	83.6	220	9	US-09-815-343-1049	Sequence 1049, Ap
32	207.4	83.6	220	13	US-10-097-105-1049	Sequence 1049, Ap
33	167	67.3	568	13	US-10-027-632-180696	Sequence 180696,
34	167	67.3	568	16	US-10-027-632-180696	Sequence 180696,
35	149.4	60.2	2931	15	US-10-270-595-1	Sequence 1, Appli
36	143.4	57.8	524	9	US-09-998-598-2534	Sequence 2534, Ap
37	141	56.9	481	15	US-10-066-543-2792	Sequence 2792, Ap
38	141	56.9	482	15	US-10-066-543-2792	Sequence 2601, Ap
39	141	56.9	482	15	US-10-066-543-181	Sequence 181, App
40	141	56.9	482	15	US-10-066-543-1737	Sequence 1737, Ap
41	141	56.9	482	15	US-10-066-543-1898	Sequence 1898, Ap
42	141	56.9	482	15	US-10-066-543-2241	Sequence 2241, Ap
43	141	56.9	483	15	US-10-066-543-2794	Sequence 2794, Ap
44	129.8	52.3	1802	9	US-09-925-299-77	Sequence 77, Appl
45	129.8	52.3	1802	10	US-09-925-299-77	Sequence 77, Appl

ALIGNMENTS

RESULT 1

US-09-988-292-8  
; Sequence 8, Application US/09988292  
; Publication No. US20020086314A1  
; GENERAL INFORMATION:  
; APPLICANT: Yu, Guo-Liang  
; Rosen, Craig  
; TITLE OF INVENTION: Colon Specific Genes and Proteins  
; NUMBER OF SEQUENCES: 24  
; CORRESPONDENCE ADDRESS:  
; ADDRESSER: Carella, Byrne, Bain, Gilfillan, Cecchi,  
; STREET: 6 Becker Farm Road  
; CITY: Roseland  
; STATE: NJ  
; COUNTRY: USA  
; ZIP: 07068-1739  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA: US/09/988,292  
; APPLICATION NUMBER: US/09/988,292  
; FILING DATE: 19-Nov-2001  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 09/224,110  
; FILING DATE: <Unknown>  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Ferrari, Gregory D.  
; REGISTRATION NUMBER: 36,134  
; REFERENCE/DOCKET NUMBER: 325800-435  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 201-994-1700  
; TELEFAX: 201-994-1744  
; INFORMATION FOR SEQ ID NO: 8:

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/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 878 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: 2..685
/ SEQUENCE DESCRIPTION: SEQ ID NO: 8:
US-09-988-292-8

Query Match
Best Local Similarity 100.0%; Score 248; DB 13; Length 878;
Matches 248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACCTGAAGCGGAAATTCACGGGGGAGTCTCATTAACTGTGACAGCTCTCTGGGG 60
DB 306 ACCTGAAGCGGAAATTCACGGGGGAGTCTCATTAACTGTGACAGCTCTCTGGGG 365
QY 61 ATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGAATAAGTACAAGTATCTTG 120
DB 366 ATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGAATAAGTACAAGTATCTTG 425
QY 121 ATCTCAGACAGCAAGTTCAATGAATCTCTTCAAGTGAATCTACTGCTCTCATCCCAAAGG 180
DB 426 ATCTCAGACAGCAAGTTCAATGAATCTCTTCAAGTGAATCTACTGCTCTCATCCCAAAGG 485
QY 181 AAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACCCAGAAAACATTAATCTTTGAAAATGGCA 240
DB 486 AAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACCCAGAAAACATTAATCTTTGAAAATGGCA 545
QY 241 CAGATCTT 248
DB 546 CAGATCTT 553

RESULT 2
US-10-305-720-850
; Sequence 850, Application US/10305720
; Publication No. US20040010136A1
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J.
; TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expression
; FILE REFERENCE: PA-0002-1 CON
; CURRENT APPLICATION NUMBER: US/10/305,720
; CURRENT FILING DATE: 2002-11-26
; PRIOR FILING DATE: 1998-01-30
; NUMBER OF SEQ ID NOS: 1490
; SOFTWARE: PERL Program
; SEQ ID NO 850
; LENGTH: 1512
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20040010136A1 608819
US-10-305-720-850

Query Match
Best Local Similarity 100.0%; Score 248; DB 16; Length 1512;
Matches 248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACCTGAAGCGGAAATTCACGGGGGAGTCTCATTAACTGTGACAGCTCTCTGGGG 60
DB 997 ACCTGAAGCGGAAATTCACGGGGGAGTCTCATTAACTGTGACAGCTCTCTGGGG 1056
QY 61 ATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGAATAAGTACAAGTATCTTG 120
DB 1057 ATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGAATAAGTACAAGTATCTTG 1116
QY 121 ATCTCAGACAGCAAGTTCAATGAATCTCTTCAAGTGAATCTACTGCTCTCATCCCAAAGG 180
```

```
1117 ATCTCAGACAGCAAGTTCAATGAATCTCTTCAAGTGAATCTACTGCTCTCATCCCAAAGG 1176
181 AAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACCCAGAAAACATTAATCTTTGAAAATGGCA 240
1177 AAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACCCAGAAAACATTAATCTTTTGAATGGCA 1236
241 CAGATCTT 248
1237 CAGATCTT 1244

RESULT 3
US-10-270-595-5
; Sequence 5, Application US/10270595
; Publication No. US20030078409A1
; GENERAL INFORMATION:
; APPLICANT: Magainin Pharmaceuticals, Inc.
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/10/270,595
; CURRENT FILING DATE: 2002-10-16
; PRIOR APPLICATION NUMBER: US/09/623,624
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 2745
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(2742)
US-10-270-595-5

Query Match
Best Local Similarity 100.0%; Score 248; DB 15; Length 2745;
Matches 248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACCTGAAGCGGAAATTCACGGGGGAGTCTCATTAACTGTGACAGCTCTCTGGGG 60
DB 2273 ACCTGAAGCGGAAATTCACGGGGGAGTCTCATTAACTGTGACAGCTCTCTGGGG 2332
QY 61 ATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGAATAAGTACAAGTATCTTG 120
DB 2333 ATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGAATAAGTACAAGTATCTTG 2392
QY 121 ATCTCAGACAGCAAGTTCAATGAATCTCTTCAAGTGAATCTACTGCTCTCATCCCAAAGG 180
DB 2393 ATCTCAGACAGCAAGTTCAATGAATCTCTTCAAGTGAATCTACTGCTCTCATCCCAAAGG 2452
QY 181 AAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACCCAGAAAACATTAATCTTTGAAAATGGCA 240
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Db 2453 AAGCCAACTCTGAGGAAGTCTTTTGTAAACAGAAAAACATTACTTTTGAAATGGCA 2512  
QY 241 CAGATCTT 248  
Db 2513 CAGATCTT 2520

## RESULT 4

US-10-106-698-1971  
; Sequence 1971, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 1971  
; LENGTH: 2854  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-106-698-1971

Query Match 100.0%; Score 248; DB 15; Length 2854;  
Best Local Similarity 100.0%; Pred. No. 1.7e-66;  
Matches 248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACCTGAAGCGGAAATTCACGGGGCAGTCTCAATTAATCTGACTTGGACAGCTCTCTGGGG 60  
Db 2307 ACCTGAAGCGGAAATTCACGGGGCAGTCTCAATTAATCTGACTTGGACAGCTCTCTGGGG 2366  
QY 61 ATGATTATGACCATGGAAGTCTCAATGAATCTCTTCAAGTGAATATCTGCTCTCATCCCAAGG 120  
Db 2367 ATGATTATGACCATGGAAGTCTCAATGAATCTCTTCAAGTGAATATCTGCTCTCATCCCAAGG 2426  
QY 121 ATCTCAGACACAAGTTCAATGAATCTCTTCAAGTGAATATCTGCTCTCATCCCAAGG 180  
Db 2427 ATCTCAGACACAAGTTCAATGAATCTCTTCAAGTGAATATCTGCTCTCATCCCAAGG 2486  
QY 181 AAGCCAACTCTGAGGAAGTCTTTTGTAAACAGAAAAACATTACTTTTGAAATGGCA 240  
Db 2487 AAGCCAACTCTGAGGAAGTCTTTTGTAAACAGAAAAACATTACTTTTGAAATGGCA 2546  
QY 241 CAGATCTT 248  
Db 2547 CAGATCTT 2554

## RESULT 5

US-10-055-412B-27  
; Sequence 27, Application US/10055412B  
; Publication No. US20030059861A1  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 27  
; LENGTH: 3007  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-055-412B-27

Query Match 100.0%; Score 248; DB 15; Length 3007;  
Best Local Similarity 100.0%; Pred. No. 1.7e-66;  
Matches 248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACCTGAAGCGGAAATTCACGGGGCAGTCTCAATTAATCTGACTTGGACAGCTCTCTGGGG 60  
Db 2319 ACCTGAAGCGGAAATTCACGGGGCAGTCTCAATTAATCTGACTTGGACAGCTCTCTGGGG 2378  
QY 61 ATGATTATGACCATGGAAGTCTCAATGAATCTCTTCAAGTGAATATCTGCTCTCATCCCAAGG 120  
Db 2379 ATGATTATGACCATGGAAGTCTCAATGAATCTCTTCAAGTGAATATCTGCTCTCATCCCAAGG 2438  
QY 121 ATCTCAGACACAAGTTCAATGAATCTCTTCAAGTGAATATCTGCTCTCATCCCAAGG 180  
Db 2439 ATCTCAGACACAAGTTCAATGAATCTCTTCAAGTGAATATCTGCTCTCATCCCAAGG 2498  
QY 181 AAGCCAACTCTGAGGAAGTCTTTTGTAAACAGAAAAACATTACTTTTGAAATGGCA 240  
Db 2499 AAGCCAACTCTGAGGAAGTCTTTTGTAAACAGAAAAACATTACTTTTGAAATGGCA 2558  
QY 241 CAGATCTT 248  
Db 2559 CAGATCTT 2566

## RESULT 6

US-10-106-698-2111  
; Sequence 2111, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 2111  
; LENGTH: 3109  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-106-698-2111

Query Match 100.0%; Score 248; DB 15; Length 3109;  
Best Local Similarity 100.0%; Pred. No. 1.8e-66;  
Matches 248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACCTGAAGCGGAAATTCACGGGGCAGTCTCAATTAATCTGACTTGGACAGCTCTCTGGGG 60  
Db 2160 ACCTGAAGCGGAAATTCACGGGGCAGTCTCAATTAATCTGACTTGGACAGCTCTCTGGGG 2219  
QY 61 ATGATTATGACCATGGAAGTCTCAATGAATCTCTTCAAGTGAATATCTGCTCTCATCCCAAGG 120  
Db 2220 ATGATTATGACCATGGAAGTCTCAATGAATCTCTTCAAGTGAATATCTGCTCTCATCCCAAGG 2279  
QY 121 ATCTCAGACACAAGTTCAATGAATCTCTTCAAGTGAATATCTGCTCTCATCCCAAGG 180  
Db 2280 ATCTCAGACACAAGTTCAATGAATCTCTTCAAGTGAATATCTGCTCTCATCCCAAGG 2339  
QY 181 AAGCCAACTCTGAGGAAGTCTTTTGTAAACAGAAAAACATTACTTTTGAAATGGCA 240

Db 2340 AAGCCAACTCTGAGGAAGTCTTTTCTTTAAACAGAAAACATTACTTTTGAAATGGCA 2399  
QY 241 CAGATCTT 248  
Db 2400 CAGATCTT 2407

## RESULT 7

US-09-823-356-25  
; Sequence 25, Application US/09823356  
; Patent No. US20010025098A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Kaser, Matthew R.  
; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
; FILE REFERENCE: PF-0489-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823,356  
; CURRENT FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/039,307  
; PRIOR FILING DATE: 1998 March 13  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PERL Program  
; SEQ ID NO 25  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775  
US-09-823-356-25

Query Match 100.0%; Score 248; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 1.8e-66;  
Matches 248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 ACCTGAAGCGGAAATTCACGGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCCTGGGG 60  
Db 2306 ACCTGAAGCGGAAATTCACGGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCCTGGGG 2365  
QY 61 ATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGAATAAGTACAAGTATTTCTTG 120  
Db 2366 ATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGAATAAGTACAAGTATTTCTTG 2425  
QY 121 ATCTCAGAGACAAGTTCAATGAATCTCTTCAAGTGAATACTAGTCTCATCCCAAAGG 180  
Db 2426 ATCTCAGAGACAAGTTCAATGAATCTCTTCAAGTGAATACTAGTCTCATCCCAAAGG 2485  
QY 181 AAGCCAACTCTGAGGAAGTCTTTTGTAAACAGAAAACATTACTTTTGAAATGGCA 240  
Db 2486 AAGCCAACTCTGAGGAAGTCTTTTGTAAACAGAAAACATTACTTTTGAAATGGCA 2545  
QY 241 CAGATCTT 248  
Db 2546 CAGATCTT 2553

## RESULT 8

US-09-981-353-191  
; Sequence 191, Application US/09981353  
; Patent No. US20020160382A1  
; GENERAL INFORMATION:  
; APPLICANT: Lasek, Amy W.  
; APPLICANT: Jones, David A.  
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
; FILE REFERENCE: PA-0038 US

; CURRENT APPLICATION NUMBER: US/09/981,353  
; CURRENT FILING DATE: 2001-10-11  
; NUMBER OF SEQ ID NOS: 194  
; SOFTWARE: PERL Program  
; SEQ ID NO 191  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CB1  
US-09-981-353-191

Query Match 100.0%; Score 248; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 1.8e-66;  
Matches 248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 ACCTGAAGCGGAAATTCACGGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCCTGGGG 60  
Db 2306 ACCTGAAGCGGAAATTCACGGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCCTGGGG 2365  
QY 61 ATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGAATAAGTACAAGTATTTCTTG 120  
Db 2366 ATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGAATAAGTACAAGTATTTCTTG 2425  
QY 121 ATCTCAGAGACAAGTTCAATGAATCTCTTCAAGTGAATACTAGTCTCATCCCAAAGG 180  
Db 2426 ATCTCAGAGACAAGTTCAATGAATCTCTTCAAGTGAATACTAGTCTCATCCCAAAGG 2485  
QY 181 AAGCCAACTCTGAGGAAGTCTTTTGTAAACAGAAAACATTACTTTTGAAATGGCA 240  
Db 2486 AAGCCAACTCTGAGGAAGTCTTTTGTAAACAGAAAACATTACTTTTGAAATGGCA 2545  
QY 241 CAGATCTT 248  
Db 2546 CAGATCTT 2553

## RESULT 9

US-10-235-994-25  
; Sequence 25, Application US/10235994  
; Publication No. US20030101002A1  
; GENERAL INFORMATION:  
; APPLICANT: Bartha, Gabor  
; APPLICANT: Walker, Michael  
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS  
; FILE REFERENCE: ICYTP012  
; CURRENT APPLICATION NUMBER: US/10/235,994  
; CURRENT FILING DATE: 2002-09-04  
; PRIOR APPLICATION NUMBER: US/10/003,608  
; PRIOR FILING DATE: 2001-11-01  
; PRIOR APPLICATION NUMBER: 60/245,081  
; PRIOR FILING DATE: 2000-11-01  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 25  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Human  
US-10-235-994-25

Query Match 100.0%; Score 248; DB 15; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 1.8e-66;  
Matches 248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACCTGAAGCGGAAATTCACGGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCCTGGGG 60  
Db 2306 ACCTGAAGCGGAAATTCACGGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCCTGGGG 2365  
QY 61 ATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGAATAAGTACAAGTATTTCTTG 120  
Db 2366 ATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGAATAAGTACAAGTATTTCTTG 2425

QY 121 ATCTCAGACAAAGTTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAAGG 180  
DB 2426 ATCTCAGACAAAGTTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAAGG 2485  
QY 181 AAGCCAACTCTGAGGAAGTCTTTTCTTTAAACAGAAAACATTACTTTTGAAAATGGCA 240  
DB 2486 AAGCCAACTCTGAGGAAGTCTTTTCTTTAAACAGAAAACATTACTTTTGAAAATGGCA 2545  
QY 241 CAGATCTT 248  
DB 2546 CAGATCTT 2553

## RESULT 10

US-09-764-868-22  
; Sequence 22, Application US/09764868  
; Patent No. US20020168711A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PT232  
; CURRENT APPLICATION NUMBER: US/09/764,868  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 1510  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 22  
; LENGTH: 3267  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-764-868-22

Query Match 100.0%; Score 248; DB 9; Length 3267;  
Best Local Similarity 100.0%; Pred. No. 1.8e-66;  
Matches 248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACCTGAAGCGGAAATTCACGGGGGAGTCTCAATTAATCTGACTTGGACAGCTCTCTGGGG 60  
DB 2307 ACCTGAAGCGGAAATTCACGGGGGAGTCTCAATTAATCTGACTTGGACAGCTCTCTGGGG 2366  
QY 61 ATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGATAAGTACAGTATTTCTTG 120  
DB 2367 ATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGATAAGTACAGTATTTCTTG 2426  
QY 121 ATCTCAGACAAAGTTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAAGG 180  
DB 2427 ATCTCAGACAAAGTTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAAGG 2486  
QY 181 AAGCCAACTCTGAGGAAGTCTTTTCTTTAAACAGAAAACATTACTTTTGAAAATGGCA 240  
DB 2487 AAGCCAACTCTGAGGAAGTCTTTTCTTTAAACAGAAAACATTACTTTTGAAAATGGCA 2546  
QY 241 CAGATCTT 248  
DB 2547 CAGATCTT 2554

## RESULT 11

US-09-922-217-1056  
; Sequence 1056, Application US/09922217  
; Patent No. US20020076414A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Smith, Carole Lynn  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun

; APPLICANT: Clapper, Jonathan D.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; FILE REFERENCE: 210121.471C13  
; CURRENT APPLICATION NUMBER: US/09/922,217  
; CURRENT FILING DATE: 2001-08-03  
; NUMBER OF SEQ ID NOS: 1124  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1056  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-922-217-1056

Query Match 100.0%; Score 248; DB 9; Length 3311;  
Best Local Similarity 100.0%; Pred. No. 1.8e-66;  
Matches 248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 ACCTGAAGCGGAAATTCACGGGGGAGTCTCAATTAATCTGACTTGGACAGCTCTCTGGGG 60  
DB 2624 ACCTGAAGCGGAAATTCACGGGGGAGTCTCAATTAATCTGACTTGGACAGCTCTCTGGGG 2683  
QY 61 ATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGATAAGTACAGTATTTCTTG 120  
DB 2684 ATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGATAAGTACAGTATTTCTTG 2743  
QY 121 ATCTCAGACAAAGTTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAAGG 180  
DB 2744 ATCTCAGACAAAGTTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAAGG 2803  
QY 181 AAGCCAACTCTGAGGAAGTCTTTTCTTTAAACAGAAAACATTACTTTTGAAAATGGCA 240  
DB 2804 AAGCCAACTCTGAGGAAGTCTTTTCTTTAAACAGAAAACATTACTTTTGAAAATGGCA 2863  
QY 241 CAGATCTT 248  
DB 2864 CAGATCTT 2871

## RESULT 12

US-09-833-263-1056  
; Sequence 1056, Application US/09833263  
; Patent No. US20020110547A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Stolk, John A.  
; APPLICANT: Meagher, Madeleine J.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND  
; FILE REFERENCE: 210121.471C12  
; CURRENT APPLICATION NUMBER: US/09/833,263  
; CURRENT FILING DATE: 2001-04-10  
; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 1056  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-833-263-1056

Query Match 100.0%; Score 248; DB 9; Length 3311;  
Best Local Similarity 100.0%; Pred. No. 1.8e-66;  
Matches 248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 ACCTGAAGCGGAAATTCACGGGGGAGTCTCAATTAATCTGACTTGGACAGCTCTCTGGGG 60  
DB 2624 ACCTGAAGCGGAAATTCACGGGGGAGTCTCAATTAATCTGACTTGGACAGCTCTCTGGGG 2683  
QY 61 ATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGATAAGTACAGTATTTCTTG 120  
DB 2684 ATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGATAAGTACAGTATTTCTTG 2743

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QY 121 ATCTCAGACAAAGTTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAAGG 180
DB 2744 ATCTCAGACAAAGTTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAAGG 2803
QY 181 AAGCCAATCTCAGGAAGTCTTTTGTGTTAAACCGAGAAACAACTTCTTTGAAATGGCA 240
DB 2804 AAGCCAATCTCAGGAAGTCTTTTGTGTTAAACCGAGAAACAACTTCTTTGAAATGGCA 2863
QY 241 CAGATCTT 248
DB 2864 CAGATCTT 2871

RESULT 13
US-10-025-380-1056
; Sequence 1056, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick Thomas S.
; APPLICANT: Carter, Darrick
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C14
; CURRENT APPLICATION NUMBER: US/10/025,380
; CURRENT FILING DATE: 2001-12-19
; NUMBER OF SEQ ID NOS: 1129
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1056
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-025-380-1056

Query Match 100.0%; Score 248; DB 14; Length 3311;
Best Local Similarity 100.0%; Pred. No. 1.8e-66;
Matches 248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACCTGAAGCGGAAATTCACGGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGG 60
DB 2624 ACCTGAAGCGGAAATTCACGGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGG 2683
QY 61 ATGATTATGACCATGGAAGTCTCAAGTATATCATTCGAATAAGTACAAGTATCTTG 120
DB 2684 ATGATTATGACCATGGAAGTCTCAAGTATATCATTCGAATAAGTACAAGTATCTTG 2743
QY 121 ATCTCAGACAAAGTTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAAGG 180
DB 2744 ATCTCAGACAAAGTTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAAGG 2803
QY 181 AAGCCAATCTCAGGAAGTCTTTTGTGTTAAACCGAGAAACAACTTCTTTGAAATGGCA 240
DB 2804 AAGCCAATCTCAGGAAGTCTTTTGTGTTAAACCGAGAAACAACTTCTTTGAAATGGCA 2863
QY 241 CAGATCTT 248
DB 2864 CAGATCTT 2871

RESULT 14
US-10-025-380-1056

Query Match 100.0%; Score 248; DB 14; Length 3311;
Best Local Similarity 100.0%; Pred. No. 1.8e-66;
Matches 248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACCTGAAGCGGAAATTCACGGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGG 60
DB 2624 ACCTGAAGCGGAAATTCACGGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGG 2683
QY 61 ATGATTATGACCATGGAAGTCTCAAGTATATCATTCGAATAAGTACAAGTATCTTG 120
DB 2684 ATGATTATGACCATGGAAGTCTCAAGTATATCATTCGAATAAGTACAAGTATCTTG 2743
QY 121 ATCTCAGACAAAGTTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAAGG 180
DB 2744 ATCTCAGACAAAGTTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAAGG 2803
QY 181 AAGCCAATCTCAGGAAGTCTTTTGTGTTAAACCGAGAAACAACTTCTTTGAAATGGCA 240
DB 2804 AAGCCAATCTCAGGAAGTCTTTTGTGTTAAACCGAGAAACAACTTCTTTGAAATGGCA 2863
QY 241 CAGATCTT 248
DB 2864 CAGATCTT 2871

RESULT 15
US-10-393-590-12
; Sequence 12, Application US/10393590
; Publication No. US20030190656A1
; GENERAL INFORMATION:
; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO
; FILE REFERENCE: CDS 268 US NP
; CURRENT APPLICATION NUMBER: US/10/393,590
; CURRENT FILING DATE: 2003-03-21
; PRIOR APPLICATION NUMBER: 60/368,789
; PRIOR FILING DATE: 2002-03-29
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 12
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: human
US-10-393-590-12

Query Match 100.0%; Score 248; DB 15; Length 3311;
Best Local Similarity 100.0%; Pred. No. 1.8e-66;
Matches 248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACCTGAAGCGGAAATTCACGGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGG 60
DB 2624 ACCTGAAGCGGAAATTCACGGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGG 2683
QY 61 ATGATTATGACCATGGAAGTCTCAAGTATATCATTCGAATAAGTACAAGTATCTTG 120
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US-10-393-590-11
; Sequence 11, Application US/10393590
; Publication No. US20030190656A1
; GENERAL INFORMATION:
; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO
; FILE REFERENCE: CDS 268 US NP
; CURRENT APPLICATION NUMBER: US/10/393,590
; CURRENT FILING DATE: 2003-03-21
; PRIOR APPLICATION NUMBER: 60/368,789
; PRIOR FILING DATE: 2002-03-29
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: human
US-10-393-590-11

Query Match 100.0%; Score 248; DB 15; Length 3311;
Best Local Similarity 100.0%; Pred. No. 1.8e-66;
Matches 248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACCTGAAGCGGAAATTCACGGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGG 60
DB 2624 ACCTGAAGCGGAAATTCACGGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGG 2683
QY 61 ATGATTATGACCATGGAAGTCTCAAGTATATCATTCGAATAAGTACAAGTATCTTG 120
DB 2684 ATGATTATGACCATGGAAGTCTCAAGTATATCATTCGAATAAGTACAAGTATCTTG 2743
QY 121 ATCTCAGACAAAGTTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAAGG 180
DB 2744 ATCTCAGACAAAGTTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAAGG 2803
QY 181 AAGCCAATCTCAGGAAGTCTTTTGTGTTAAACCGAGAAACAACTTCTTTGAAATGGCA 240
DB 2804 AAGCCAATCTCAGGAAGTCTTTTGTGTTAAACCGAGAAACAACTTCTTTGAAATGGCA 2863
QY 241 CAGATCTT 248
DB 2864 CAGATCTT 2871

RESULT 15
US-10-393-590-12
; Sequence 12, Application US/10393590
; Publication No. US20030190656A1
; GENERAL INFORMATION:
; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO
; FILE REFERENCE: CDS 268 US NP
; CURRENT APPLICATION NUMBER: US/10/393,590
; CURRENT FILING DATE: 2003-03-21
; PRIOR APPLICATION NUMBER: 60/368,789
; PRIOR FILING DATE: 2002-03-29
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 12
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: human
US-10-393-590-12

Query Match 100.0%; Score 248; DB 15; Length 3311;
Best Local Similarity 100.0%; Pred. No. 1.8e-66;
Matches 248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACCTGAAGCGGAAATTCACGGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGG 60
DB 2624 ACCTGAAGCGGAAATTCACGGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGG 2683
QY 61 ATGATTATGACCATGGAAGTCTCAAGTATATCATTCGAATAAGTACAAGTATCTTG 120
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Search completed: April 24, 2004, 06:38:14  
Job time : 133.72 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 24, 2004, 00:33:00 ; Search time 22.7962 Seconds  
(without alignments)  
6037.311 Million cell updates/sec

Title: US-09-049-696-14

Perfect score: 248

Sequence: 1 ACCTGAAGCGGAATTAC.....TTGAATAATGGCACAGATCTT 248

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- Issued Patents NA.\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	248	100.0	878	1	US-08-469-667-8
2	248	100.0	878	4	US-09-224-110-8
3	248	100.0	878	5	US-09-07289-8
4	248	100.0	1512	4	US-09-016-434-850
5	248	100.0	2745	4	US-09-623-624-5
6	248	100.0	3007	4	US-09-193-562D-27
7	149.4	60.2	2931	4	US-09-623-624-1
8	129	52.0	313	4	US-09-049-698-10
9	129	52.0	618	3	US-09-385-982-24
10	129	52.0	1081	4	US-09-016-434-928
11	129	52.0	1399	4	US-09-049-698-17
12	129	52.0	3043	4	US-09-049-698-16
13	129	52.0	3181	4	US-09-049-698-18
14	128.2	51.7	595	3	US-09-385-982-25
15	92.8	37.4	742	3	US-09-385-982-33
16	88.6	35.7	3022	4	US-09-193-562D-33
17	87.4	35.2	3317	4	US-09-193-562D-1
18	84	33.9	242	4	US-09-049-698-11
19	82	33.1	3418	4	US-09-193-562D-29
20	65.8	26.5	335	4	US-09-193-562D-14
21	60	24.2	2773	4	US-09-643-597-358
22	60	24.2	2784	4	US-09-643-597-168
23	60	24.2	2784	4	US-09-480-884A-168
24	60	24.2	2784	4	US-09-542-615A-168
25	60	24.2	2784	4	US-09-606-421B-168
26	60	24.2	3156	4	US-09-919-172-86
27	60	24.2	3362	4	US-09-643-597-167

28	60	24.2	3362	4	US-09-480-884A-167	Sequence 167, App
29	60	24.2	3362	4	US-09-542-615A-167	Sequence 167, App
30	60	24.2	3362	4	US-09-606-421B-167	Sequence 167, App
31	60	24.2	3951	4	US-09-643-597-160	Sequence 160, App
32	60	24.2	3951	4	US-09-480-884A-160	Sequence 160, App
33	60	24.2	3951	4	US-09-542-615A-160	Sequence 160, App
34	60	24.2	3951	4	US-09-606-421B-160	Sequence 160, App
35	60	24.2	3951	4	US-09-221-107-160	Sequence 160, App
36	60	24.2	8031	4	US-09-643-597-254	Sequence 254, App
37	60	24.2	8031	4	US-09-480-884A-254	Sequence 254, App
38	60	24.2	8031	4	US-09-542-615A-254	Sequence 254, App
39	60	24.2	8031	4	US-09-606-421B-254	Sequence 254, App
40	58.4	23.5	2970	4	US-09-193-562D-31	Sequence 31, Appli
41	58.4	23.5	3190	4	US-09-623-624-3	Sequence 23, Appli
42	44.4	17.9	576	3	US-09-385-982-23	Sequence 9, Appli
43	36.8	14.8	233	4	US-09-049-698-9	Sequence 106, App
44	35.6	14.4	4211	4	US-09-004-838-106	Sequence 8976, Ap
45	34.6	14.0	399	4	US-09-621-976-8976	

ALIGNMENTS

RESULT 1  
US-08-469-667-8  
; Sequence 8, Application US/08469667  
; Patent No. 5733748  
; GENERAL INFORMATION:  
; APPLICANT: Yu, Guo-Liang  
; APPLICANT: Rosen, Craig  
; TITLE OF INVENTION: Colon Specific Genes and Proteins  
; NUMBER OF SEQUENCES: 24  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,  
; ADDRESSEE: Stewart & Olstein  
; STREET: 6 Becker Farm Road  
; CITY: Roseland  
; STATE: NJ  
; COUNTRY: USA  
; ZIP: 07068-1739  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/469,667  
; FILING DATE: 06-JUN-1995  
; CLASSIFICATION: 536  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Ferraro, Gregory D.  
; REGISTRATION NUMBER: 36,134  
; REFERENCE/DOCKET NUMBER: 325800-435  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 201-994-1700  
; TELEFAX: 201-994-1744  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 2..685  
; US-08-469-667-8

Query Match 100.0%; Score 248; DB 1; Length 878;  
Best Local Similarity 100.0%; Pred. No. 2.7e-68;  
Matches 248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACCTGAAGCGGAATTACGGGGGAGTCTCATTAATCTGACGCTCTGGGG 60

Db 306 ACCTGAAGCGGAAATTCACGGGGGAGTCTCATTAATCTGACTTGGACAGCTCCTGGGG 365  
QY 61 ATGATTATGACCATGGAACAGCTCAAGATATATCATTCGAATAGTACAAAGTATCTTGG 120  
Db 366 ATGATTATGACCATGGAACAGCTCAAGATATATCATTCGAATAGTACAAAGTATCTTGG 425  
QY 121 ATCTCAGAGACAAGTTCAATGAATCTCTTCAAGTGAATACTGCTCTCATCCCAAAGG 180  
Db 426 ATCTCAGAGACAAGTTCAATGAATCTCTTCAAGTGAATACTGCTCTCATCCCAAAGG 485  
QY 181 AAGCCAACTCTGAGGAAGTCTTTTGTAAACCCAGAAAACATTACTTTTGAATAATGGCA 240  
Db 486 AAGCCAACTCTGAGGAAGTCTTTTGTAAACCCAGAAAACATTACTTTTGAATAATGGCA 545  
QY 241 CAGATCTT 248  
Db 546 CAGATCTT 553

## RESULT 2

US-09-224-110-8  
; Sequence 8, Application US/09224110  
; Patent No. 6337195  
; GENERAL INFORMATION:  
; APPLICANT: Yu, Guo-Liang  
; APPLICANT: Rosen, Craig  
; TITLE OF INVENTION: Colon Specific Genes and Proteins  
; NUMBER OF SEQUENCES: 24  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,  
; ADDRESSEE: Stewart & Olstein  
; STREET: 6 Becker Farm Road  
; CITY: Roseland  
; STATE: NJ  
; COUNTRY: USA  
; ZIP: 07068-1739  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/224,110  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/469,667  
; FILING DATE: 06-JUN-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Ferraro, Gregory D.  
; REGISTRATION NUMBER: 36,134  
; REFERENCE/DOCKET NUMBER: 325800-435  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 201-994-1700  
; TELEFAX: 201-994-1744  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 878 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 2..685  
US-09-224-110-8

Query Match 100.0%; Score 248; DB 4; Length 878;  
Best Local Similarity 100.0%; Pred. No. 2.7e-68;  
Matches 248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACCTGAAGCGGAAATTCACGGGGGAGTCTCATTAATCTGACTTGGACAGCTCCTGGGG 60

Db 306 ACCTGAAGCGGAAATTCACGGGGGAGTCTCATTAATCTGACTTGGACAGCTCCTGGGG 365  
QY 61 ATGATTATGACCATGGAACAGCTCAAGATATATCATTCGAATAGTACAAAGTATCTTGG 120  
Db 366 ATGATTATGACCATGGAACAGCTCAAGATATATCATTCGAATAGTACAAAGTATCTTGG 425  
QY 121 ATCTCAGAGACAAGTTCAATGAATCTCTTCAAGTGAATACTGCTCTCATCCCAAAGG 180  
Db 426 ATCTCAGAGACAAGTTCAATGAATCTCTTCAAGTGAATACTGCTCTCATCCCAAAGG 485  
QY 181 AAGCCAACTCTGAGGAAGTCTTTTGTAAACCCAGAAAACATTACTTTTGAATAATGGCA 240  
Db 486 AAGCCAACTCTGAGGAAGTCTTTTGTAAACCCAGAAAACATTACTTTTGAATAATGGCA 545  
QY 241 CAGATCTT 248  
Db 546 CAGATCTT 553

## RESULT 3

PCT-US95-07289-8  
; Sequence 8, Application PC/TUS9507289  
; GENERAL INFORMATION:  
; APPLICANT: Yu, Guo-Liang  
; APPLICANT: Rosen, Craig  
; TITLE OF INVENTION: Colon Specific Genes and Proteins  
; NUMBER OF SEQUENCES: 24  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,  
; ADDRESSEE: Stewart & Olstein  
; STREET: 6 Becker Farm Road  
; CITY: Roseland  
; STATE: NJ  
; COUNTRY: USA  
; ZIP: 07068-1739  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US95/07289  
; FILING DATE: 06-JUN-1995  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Ferraro, Gregory D.  
; REGISTRATION NUMBER: 36,134  
; REFERENCE/DOCKET NUMBER: 325800-265  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 201-994-1700  
; TELEFAX: 201-994-1744  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 878 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 2..685  
PCT-US95-07289-8

Query Match 100.0%; Score 248; DB 5; Length 878;  
Best Local Similarity 100.0%; Pred. No. 2.7e-68;  
Matches 248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACCTGAAGCGGAAATTCACGGGGGAGTCTCATTAATCTGACTTGGACAGCTCCTGGGG 60

Db 306 ACCTGAAGCGGAAATTCACGGGGGAGTCTCATTAATCTGACTTGGACAGCTCCTGGGG 365

QY 61 ATGATTATGACCATGGAACAGCTCAAGATATATCATTCGAATAGTACAAAGTATCTTGG 120

Db 366 ATGATTATGACCATGGAACAGCTCAAGTATATCATTCGAATAAGTACAAGTATTCCTTG 425  
QY 121 ATCTCAGACAGCAAGTTCAATGAATCTCTTCAAGTGAATATCTCTCATCCCAAGG 180  
Db 426 ATCTCAGACAGCAAGTTCAATGAATCTCTTCAAGTGAATATCTCTCATCCCAAGG 485  
QY 181 AAGCCAACTCTGAGGAAGTCTTTTGTGTTAAACCGAGAAACATTAATCTTTGAAATGGCA 240  
Db 486 AAGCCAACTCTGAGGAAGTCTTTTGTGTTAAACCGAGAAACATTAATCTTTGAAATGGCA 545  
QY 241 CAGATCTT 248  
Db 546 CAGATCTT 553

## RESULT 4

US-09-016-434-850  
; Sequence 850, Application US/09016434  
; Patent No. 6500938  
; GENERAL INFORMATION:  
; APPLICANT: Janice Au-Young  
; APPLICANT: Jeffrey J. Seilhammer  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION  
; NUMBER OF SEQUENCES: 1490  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/016,434  
; FILING DATE: HERewith  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Zeller, Karen J.  
; REGISTRATION NUMBER: 37,071  
; REFERENCE/DOCKET NUMBER: PA-0002 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (650) 855-0555  
; TELEFAX: (650) 845-4166  
; INFORMATION FOR SEQ ID NO: 850:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1512 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: COLNNOT01  
; CLONE: 608819  
US-09-016-434-850

Query Match 100.0%; Score 248; DB 4; Length 1512;  
Best Local Similarity 100.0%; Pred. No. 3.3e-68;  
Matches 248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 ACCTGAAGCGGAAATTCACGGGGGAGTCTCATTAATCTGACTTGGACAGCTCCTGGGG 60  
Db 997 ACCTGAAGCGGAAATTCACGGGGGAGTCTCATTAATCTGACTTGGACAGCTCCTGGGG 1056  
QY 61 ATGATTATGACCATGGAACAGCTCAAGTATATCATTCGAATAAGTACAAGTATTCCTTG 120

Db 1057 ATGATTATGACCATGGAACAGCTCAAGTATATCATTCGAATAAGTACAAGTATTCCTTG 1116  
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Db 1117 ATCTCAGACAGCAAGTTCAATGAATCTCTTCAAGTGAATATCTCTCATCCCAAGG 1176  
QY 181 AAGCCAACTCTGAGGAAGTCTTTTGTGTTAAACCGAGAAACATTAATCTTTGAAATGGCA 240  
Db 1177 AAGCCAACTCTGAGGAAGTCTTTTGTGTTAAACCGAGAAACATTAATCTTTGAAATGGCA 1236  
QY 241 CAGATCTT 248  
Db 1237 CAGATCTT 1244

## RESULT 5

US-09-623-624-5  
; Sequence 5, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patent in Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 2745  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(2742)  
US-09-623-624-5

Query Match 100.0%; Score 248; DB 4; Length 2745;  
Best Local Similarity 100.0%; Pred. No. 4.2e-68;  
Matches 248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 ACCTGAAGCGGAAATTCACGGGGGAGTCTCATTAATCTGACTTGGACAGCTCCTGGGG 60  
Db 2273 ACCTGAAGCGGAAATTCACGGGGGAGTCTCATTAATCTGACTTGGACAGCTCCTGGGG 2332  
QY 61 ATGATTATGACCATGGAACAGCTCAAGTATATCATTCGAATAAGTACAAGTATTCCTTG 120

Db 2333 ATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGAATAAGTACAAGTATTTTG 2392  
QY 121 ATCTCAGAGACAGTTCATGAATCTCTCAAGTGAATACTGCTCTCATCCCAAAGG 180  
Db 2393 ATCTCAGAGACAGTTCATGAATCTCTCAAGTGAATACTGCTCTCATCCCAAAGG 2452  
QY 181 AAGCCAATCTCAGGAAGTCTTTTGTAAACCCAGAAAAACATTACTTTGAAAAATGGCA 240  
Db 2453 AAGCCAATCTCAGGAAGTCTTTTGTAAACCCAGAAAAACATTACTTTGAAAAATGGCA 2512  
QY 241 CAGATCTT 248  
Db 2513 CAGATCTT 2520

## RESULT 6

US-09-193-562D-27  
; Sequence 27, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 27  
; LENGTH: 3007  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-193-562D-27

Query Match 100.0%; Score 248; DB 4; Length 3007;  
Best Local Similarity 100.0%; Pred. No. 4.4e-68;  
Matches 248; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 ACCTGAAGCGGAAATTCACGGGGGAGTCTCATTAATCTGACTTGGACAGCTCTCTGGG 60  
Db 2319 ACCTGAAGCGGAAATTCACGGGGGAGTCTCATTAATCTGACTTGGACAGCTCTCTGGG 2378  
QY 61 ATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGAATAAGTACAAGTATTTTG 120  
Db 2379 ATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGAATAAGTACAAGTATTTTG 2438  
QY 121 ATCTCAGAGACAGTTCATGAATCTCTTCAAGTGAATACTGCTCTCATCCCAAAGG 180  
Db 2439 ATCTCAGAGACAGTTCATGAATCTCTTCAAGTGAATACTGCTCTCATCCCAAAGG 2498  
QY 181 AAGCCAATCTCAGGAAGTCTTTTGTAAACCCAGAAAAACATTACTTTGAAAAATGGCA 240  
Db 2499 AAGCCAATCTCAGGAAGTCTTTTGTAAACCCAGAAAAACATTACTTTGAAAAATGGCA 2558  
QY 241 CAGATCTT 248  
Db 2559 CAGATCTT 2566

## RESULT 7

US-09-623-624-1  
; Sequence 1, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703

; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 2931  
; TYPE: DNA  
; ORGANISM: Mus musculus  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (8)..(2746)  
US-09-623-624-1

Query Match 60.2%; Score 149.4; DB 4; Length 2931;  
Best Local Similarity 75.3%; Pred. No. 3.2e-37;  
Matches 186; Conservative 0; Mismatches 61; Indels 0; Gaps 0;  
QY 1 ACCTGAAGCGGAAATTCACGGGGGAGTCTCATTAATCTGACTTGGACAGCTCTCTGGG 60  
Db 2280 ACCTGAAGCGGAAATTCACGGGGGAGTCTCATTAATCTGACTTGGACAGCTCTCTGGG 2339  
QY 61 ATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGAATAAGTACAAGTATTTTG 120  
Db 2340 ATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGAATAAGTACAAGTATTTTG 2399  
QY 121 ATCTCAGAGACAGTTCATGAATCTCTTCAAGTGAATACTGCTCTCATCCCAAAGG 180  
Db 2400 ATCTCAGAGACAGTTCATGAATCTCTTCAAGTGAATACTGCTCTCATCCCAAAGG 2459  
QY 181 AAGCCAATCTCAGGAAGTCTTTTGTAAACCCAGAAAAACATTACTTTGAAAAATGGCA 240  
Db 2460 AAGCCAATCTCAGGAAGTCTTTTGTAAACCCAGAAAAACATTACTTTGAAAAATGGCA 2519  
QY 241 CAGATCTT 247  
Db 2520 CAGATCTT 2526

## RESULT 8

US-09-049-698-10  
; Sequence 10, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITTS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLASS, MICHAEL R.  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.

```
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL
; TITLE OF INVENTION: TRACT
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESS: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/049,698
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/828,856
; FILING DATE: 31-MAR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6068.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 313 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: base_polymorphism
; LOCATION: 22
; OTHER INFORMATION: /note= " N' represents an A or G or
; OTHER INFORMATION: T or C polymorphism at this position"
; FEATURE:
; NAME/KEY: base_polymorphism
; LOCATION: 44
; OTHER INFORMATION: /note= " N' represents an A or G or
; OTHER INFORMATION: T or C polymorphism at this position"
; US-09-049-698-10
;
; Query Match 52.0%; Score 129; DB 4; Length 313;
; Best Local Similarity 76.1%; Pred. No. 3.3e-31;
; Matches 159; Conservative 0; Mismatches 50; Indels 0; Gaps 0;
;
; QY 33 ATTAATCTGACTTGGACAGCTCTCTGGGATGATTATGACCATGGAACAGCTCACAAGTAT 92
; DB 56 ATATTCTTTACATGGACAGCAGAGATAATTTTGATGTTGGAAAAGTTCAACGTTAT 115
; QY 93 ATCATTCGAATAGTACAGTATCTTGATCTCAGAGACAAGTCAATCAATCTCTCAA 152
; DB 116 ATCAATAAGTAAGTCAAGTATCTTGATCTAAGAGACAGTTTGATGATGCTCTCAA 175
; QY 153 GTGAATACTACTGCTCTCATCCAAAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTAAA 212
; DB 176 GTAATACTACTGATCTGTCCAAAGGAGGCAACTCCAAAGGAAGCTTTGCAATTTAA 235
; QY 213 CCAGAAAACATTACTTTTGAATAATGGCAC 241
; DB 236 CCAGAAAATATCTCAGAGAAAATGCAAC 264
;
; RESULT 9
; US-09-385-982-24/c
; Sequence 24, Application US/09385982
```

```
; Patent No. 6262334
; GENERAL INFORMATION:
; APPLICANT: ENDEGE, WILSON O., ET AL.
; TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
; TITLE OF INVENTION: PRODUCTS: II
; FILE REFERENCE: CCDA-260XX
; CURRENT APPLICATION NUMBER: US/09/385,982
; CURRENT FILING DATE: 1999-08-30
; EARLIER APPLICATION NUMBER: 09/328,111
; EARLIER FILING DATE: 1999-06-08
; EARLIER APPLICATION NUMBER: 60/117,393
; EARLIER FILING DATE: 1999-01-27
; EARLIER APPLICATION NUMBER: 60/098,639
; EARLIER FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 544
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 24
; LENGTH: 618
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(618)
; OTHER INFORMATION: n = A,T,C or G
; US-09-385-982-24
;
; Query Match 52.0%; Score 129; DB 3; Length 618;
; Best Local Similarity 76.1%; Pred. No. 4.3e-31;
; Matches 159; Conservative 0; Mismatches 50; Indels 0; Gaps 0;
;
; QY 33 ATTAATCTGACTTGGACAGCTCTCTGGGATGATTATGACCATGGAACAGCTCACAAGTAT 92
; DB 441 ATTATTCTTACATGGACAGCAGCAGAGATAATTTTGATGTTGGAAAAGTTCAACGTTAT 382
; QY 93 ATCATTCGAATAGTACAGTATCTTGATCTCAGAGACAAGTCAATCAATCTCTCAA 152
; DB 381 ATCAATAAGTAAGTCAAGTATCTTGATCTAAGAGACAGTTTGATGATGCTCTCAA 322
; QY 153 GTGAATACTACTGCTCTCATCCAAAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTAAA 212
; DB 321 GTAATACTACTGATCTGTCCAAAGGAGGCAACTCCAAAGGAAGCTTTGCAATTTAA 262
; QY 213 CCAGAAAACATTACTTTTGAATAATGGCAC 241
; DB 261 CCAGAAAATATCTCAGAGAAAATGCAAC 233
;
; RESULT 10
; US-09-016-434-928
; Sequence 928, Application US/09016434
; Patent No. 6500938
; GENERAL INFORMATION:
; APPLICANT: Janice Au-Young
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION
; NUMBER OF SEQUENCES: 1490
; CORRESPONDENCE ADDRESS:
; ADDRESS: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/016,434
; FILING DATE: HERewith
; CLASSIFICATION:
```

;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: 08/828,856  
;; FILING DATE: 31-MAR-1997  
;; CLASSIFICATION: 08/828,856  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Zeller, Karen J.  
;; REGISTRATION NUMBER: 37,071  
;; REFERENCE/DOCKET NUMBER: PA-0002 US  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (650) 855-0555  
;; TELEFAX: (650) 845-4166  
;; INFORMATION FOR SEQ ID NO: 928:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 1081 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;; IMMEDIATE SOURCE:  
;; LIBRARY: COLNNOT05  
;; CLONE: 774419  
;; US-09-016-434-928

Query Match 52.0%; Score 129; DB 4; Length 1081;  
Best Local Similarity 76.1%; Pred. No. 5.4e-31;  
Matches 159; Conservative 0; Mismatches 50; Indels 0; Gaps 0;

QY 33 ATTAATCTGACCTGACAGCTCTCTGGGATGATTATGACCATGGAACAGCTCACAAGTAT 92  
DB 550 ATTATTTCTACATGACAGCAGCAGAGAGATAATTTTGATGTTGGAAAAGTTCAACGTTAT 609  
QY 93 ATCAATCGAATAAGTACAAAGTATTTCTGATCTCAGAGACAAAGTTCATGAATCTCTTCAA 152  
DB 610 ATCATAAGATAAGTACAAAGTATTTCTGATCTCAGAGACAGTTTTCATGATGCTCTTCAA 669  
QY 153 GTGAATACCTGCTCTCTCAATCCAAAGGAGCAACTCTGAGAAAGTCTTTTGTGTTAAA 212  
DB 670 GTAAATACCTGCTCTCTCAATCCAAAGGAGCAACTCTGAGAAAGTCTTTGCAITTTAA 729  
QY 213 CCAGAAACATTACTTTTGAATAATGGCAC 241  
DB 730 CCAGAAATATCTCTCAGAAAGAAATGCAAC 758

RESULT 11  
US-09-049-698-17  
; Sequence 17, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITTS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLASS, MICHAEL R.  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; TRACT  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park  
; STATE: IL  
; COUNTRY: USA  
; ZIP: 60064-3500  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0

;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/09/049,698  
;; FILING DATE:  
;; CLASSIFICATION:  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: 08/828,856  
;; FILING DATE: 31-MAR-1997  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Becker, Cheryl L.  
;; REGISTRATION NUMBER: 35,441  
;; REFERENCE/DOCKET NUMBER: 6068.US.P1  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 847/935-1729  
;; TELEFAX: 847/938-2623  
;; TELEX:  
;; INFORMATION FOR SEQ ID NO: 17:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 1399 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;; US-09-049-698-17

Query Match 52.0%; Score 129; DB 4; Length 1399;  
Best Local Similarity 76.1%; Pred. No. 5.9e-31;  
Matches 159; Conservative 0; Mismatches 50; Indels 0; Gaps 0;

QY 33 ATTAATCTGACCTGACAGCTCTCTGGGATGATTATGACCATGGAACAGCTCACAAGTAT 92  
DB 550 ATTATTTCTACATGACAGCAGCAGAGAGATAATTTTGATGTTGGAAAAGTTCAACGTTAT 609  
QY 93 ATCAATCGAATAAGTACAAAGTATTTCTGATCTCAGAGACAAAGTTCATGAATCTCTTCAA 152  
DB 610 ATCATAAGATAAGTACAAAGTATTTCTGATCTCAGAGACAGTTTTCATGATGCTCTTCAA 669  
QY 153 GTGAATACCTGCTCTCTCAATCCAAAGGAGCAACTCTGAGAAAGTCTTTTGTGTTAAA 212  
DB 670 GTAAATACCTGCTCTCTCAATCCAAAGGAGCAACTCTGAGAAAGTCTTTGCAITTTAA 729  
QY 213 CCAGAAACATTACTTTTGAATAATGGCAC 241  
DB 730 CCAGAAATATCTCTCAGAAAGAAATGCAAC 758

RESULT 12  
US-09-049-698-16  
; Sequence 16, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITTS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLASS, MICHAEL R.  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; TRACT  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park  
; STATE: IL  
; COUNTRY: USA  
; ZIP: 60064-3500  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS



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; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/049,698
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA: 08/828,856
; FILING DATE: 31-MAR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6068.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3043 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-09-049-698-16

Query Match          52.0%; Score 129; DB 4; Length 3043;
Best Local Similarity 76.1%; Pred. No. 8e-31;
Matches 159; Conservative 0; Mismatches 50; Indels 0; Gaps 0;

QY 33 ATTAATCTGACCTGGACAGCTCTGGGATGATTATGACCATGGACAGCTCACAAGTAT 92
Db 2321 ATTATCTTACATGGACAGCACCAGAGATAATTTTGATGTGGAAAAGTTCAACGTTAT 2380

QY 93 ATCATTCGAATAAGTACAAGTATCTTGATCTCAGAGACAAGTTCAATGAATCTCTTCAA 152
Db 2381 ATCATAGAATAAGTCAAGTATCTTGATCTAAGAGACAGTTTTCATGATGCTCTTCAA 2440

QY 153 GTGAATACTACTGCTCTCATCCCAAAGGAGCAACTCTGAGGAAGTCTTTTGTGTTTAA 212
Db 2441 GTAAATACTACTGATCTGTCCCAAAGGAGGCAACTCCAAGGAAGCTTTTGCAATTTAA 2500

QY 213 CCAGAAAACATTACTTTTGAATGCGAC 241
Db 2501 CCAGAAAATATCTCAGAGAAAATGCAAC 2529

RESULT 13
US-09-049-698-18
; Sequence 18, Application US/09049698
; Patent No. 6368792
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA A.
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: HAYDEN, MARK
; APPLICANT: KLASS, MICHAEL R.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL
; TITLE OF INVENTION: TRACT
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
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; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/049,698
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/828,856
; FILING DATE: 31-MAR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6068.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3181 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-09-049-698-18

Query Match          52.0%; Score 129; DB 4; Length 3181;
Best Local Similarity 76.1%; Pred. No. 8.2e-31;
Matches 159; Conservative 0; Mismatches 50; Indels 0; Gaps 0;

QY 33 ATTAATCTGACCTGGACAGCTCTGGGATGATTATGACCATGGACAGCTCACAAGTAT 92
Db 2332 ATTATCTTACATGGACAGCACCAGAGATAATTTTGATGTGGAAAAGTTCAACGTTAT 2391

QY 93 ATCATTCGAATAAGTACAAGTATCTTGATCTCAGAGACAAGTTCAATGAATCTCTTCAA 152
Db 2392 ATCATAGAATAAGTCAAGTATCTTGATCTAAGAGACAGTTTTCATGATGCTCTTCAA 2451

QY 153 GTGAATACTACTGCTCTCATCCCAAAGGAGCAACTCTGAGGAAGTCTTTTGTGTTTAA 212
Db 2452 GTAAATACTACTGATCTGTCCCAAAGGAGGCAACTCCAAGGAAGCTTTTGCAATTTAA 2511

QY 213 CCAGAAAACATTACTTTTGAATGCGAC 241
Db 2512 CCAGAAAATATCTCAGAGAAAATGCAAC 2540

RESULT 14
US-09-385-982-25
; Sequence 25, Application US/09385982
; Patent No. 6262334
; GENERAL INFORMATION:
; APPLICANT: ENDEGE, WILSON O., ET AL.
; TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
; TITLE OF INVENTION: PRODUCTS: II
; FILE REFERENCE: CCDNA-260XX
; CURRENT APPLICATION NUMBER: US/09/385,982
; CURRENT FILING DATE: 1999-08-30
; EARLIER APPLICATION NUMBER: 09/328,111
; EARLIER FILING DATE: 1999-06-08
; EARLIER APPLICATION NUMBER: 60/117,393
; EARLIER FILING DATE: 1999-01-27
; EARLIER APPLICATION NUMBER: 60/098,639
; EARLIER FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 544
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 25
; LENGTH: 595
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(595)
; OTHER INFORMATION: n = A,T,C or G
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US-09-385-982-25

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Query Match      51.7%; Score 128.2; DB 3; Length 595;
Best Local Similarity 75.1%; Pred. No. 7.5e-31;
Matches 157: Conservative 0; Mismatches 52; Indels 0
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Qy	33	ATTAATCTGACTGGACAGCTCTCGGGATGATTATGACCAATGAACAGCTCACAAGTAT	92
Db	210	ATTATTCTTACATGGACAGCACACGAGAGATAATTTTGATGTTGGAAAAGTTTCAACGNAT	269
Qy	93	ATCAATTCGAATAAGCTACAAGTATTTCTTGATCTCAGAGACAAGTTCAATGAATCTCTTCAA	152
Db	270	ATCATAGAATAAGTGCAGATTTCTTGATCTTAAGAGACAGTTTGTATGATGCTCTTCAA	329
Qy	153	GTCAATACTACTGCTCTCATCCCCAAAGGAAGCCAACTCTGAGGAAGTCTTTTTGTTTAAA	212
Db	330	GTAATACTACTGATCTGTCCACCAAGGAGGCCAACTCCAANGAAAGCTTTTGCNTTTAAA	389
Qy	213	CCGAAACACATTACTTTTGAAAATGGCAC	241
Db	390	CCGAAAATATCTCAGAGAAAATGCGAAC	418

RESULT 15

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US-09-385-982-33
; Sequence 33, Application US/09385982
; Patent No. 6262334
; GENERAL INFORMATION:
; APPLICANT: ENDEGE, WILSON O., ET AL.
; TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
; TITLE OF INVENTION: PRODUCTS: 11
; FILE REFERENCE: CCDNA-260XX
; CURRENT APPLICATION NUMBER: US/09/385,982
; CURRENT FILING DATE: 1999-08-30
; EARLIER APPLICATION NUMBER: 09/328,111
; EARLIER FILING DATE: 1999-06-08
; EARLIER APPLICATION NUMBER: 60/117,393
; EARLIER FILING DATE: 1999-01-27
; EARLIER APPLICATION NUMBER: 60/098,639
; EARLIER FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 544
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO 33
; LENGTH: 742
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(742)
; OTHER INFORMATION: n = A,T,C or G
US-09-385-982-33

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Query Match	37.4%	Score 92.8	DB 3	Length 742
Best Local Similarity	74.1%	Pred. No. 1e-19		
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Db	210	ATTAATCTTACATGACAGCAGCAGAGATAATTTTGATGTTGGAAAGTTCACAGTTAT	269	
Qy	93	ATCATTCGAATAAGTACAAGTATCTTTGATCTCAGAGACAAGTTCAATGAATCTCTTCAA	152	
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Qy	213	CCAGAAACATTA	225	
Db	388	CANAAATATATTA	400	

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - protein search, using frame\_plus\_n2p model

Run on: April 21, 2004, 16:13:49 ; Search time 35.7047 Seconds  
(without alignments)  
3840.718 Million cell updates/sec

Title: US-09-049-696-14

Perfect score: 427  
Sequence: 1 AACTGAAGCGGAATTTCAC.....TTGAAATATGACACAGATCTT 248

Scoring table: BLOSUM62  
Xgapop 10.0 , Xgapext 0.5  
Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 1133595 seqs, 276475211 residues

Total number of hits satisfying chosen parameters: 2267190

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Command line parameters:  
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-THR\_MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEADSIZE=500 -MINLEN=0  
-MAXLEN=200000000 -USER=US09049696 @CGN 1 139 @runat 21042004 154838 21265  
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Database : Published Applications AA:

- 1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*
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- 9: /cgn2\_6/ptodata/2/pubpaa/US09A\_PUBCOMB.pep.\*
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- 11: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep.\*
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- 15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*
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- 18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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ALIGNMENTS

RESULT 1

US-09-988-292-9  
; Sequence 9, Application US/09988292  
; Publication No. US20020086314A1  
; GENERAL INFORMATION:

APPLICANT: Yu, Guo-Liang  
Rosen, Craig

TITLE OF INVENTION: Colon Specific Genes and Proteins  
NUMBER OF SEQUENCES: 24

CORRESPONDENCE ADDRESS:

ADDRESSEES: Carella, Byrne, Bain, Gilfillan, Cecchi,  
Stewart & Olstein  
CITY: Roseland  
STATE: NJ

STREET: 6 Becker Farm Road

COUNTRY: USA

ZIP: 07068-1739

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/988,292

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; FILING DATE: 19-Nov-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/224,110
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Ferraro, Gregory D.
; REGISTRATION NUMBER: 36,134
; REFERENCE/DOCKET NUMBER: 325800-435
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-994-1700
; TELEFAX: 201-994-1744
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 228 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 9:
US-09-988-292-9
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Score: 427.00 Matches: 82
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 12 Gaps: 0
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QY 63 GATTATGACCATCGAACAGCTCACAAAGTATATCATTCGATAAGTACACAGTATTCCTGAT 122
Db 123 AspTyrAspHisGlyThrAlaHisLysTyrIleLeuArgIleSerThrSerIleLeuAsp 182
QY 123 CTCAGAGACAAGTTCGAATGATCTCTTCAAGTGAATACACTACTGCTCTCATCCCAAGGAA 182
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QY 183 GCCAACTCTGAGGAAGTCTTTTGTGTTAAACACAGAAAACATTACTTTTGAAAATGGCACA 242
Db 163 AlaAsnSerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThr 182
QY 243 GATCTT 248
Db 183 AspLeu 184
RESULT 2
US-10-106-698-6388
; Sequence 6388, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and P
; FILE REFERENCE: PA005P1
; CURRENT APPLICATION NUMBER: US/10/106,698
; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 6388
; LENGTH: 869
; TYPE: PRT
; ORGANISM: Homo sapiens

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QY 63 GATTATGACCATGGAACAGCTCACAGTATATCATTGGAATAAGTACAAGTATTCTTGAT 122  
DB 779 AspTyrAspHisGlyThrAlaHisLysTyrIleleArgIleSerThrSerileLeuAsp 798  
QY 123 CTCAGAGACAAGTTCATGAATCTCTCAAGTGAATATCTGCTCTCATCCCAAGGAA 182  
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QY 183 GCCAACTCTGAGAGAGTCTTTTGTAAACAGAGAAACATTACTTTTCAAAATGCGACA 242  
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QY 243 GATCTT 248  
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RESULT 4  
US-09-922-217-1066  
; Sequence 1066, Application US/09922217  
; Patent No. US20020076414A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stoik, John A.  
; APPLICANT: Wang, Jingtong  
; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Smith, Carole Lynn  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; FILE REFERENCE: 210121.471C13  
; CURRENT APPLICATION NUMBER: US/09/922,217  
; NUMBER OF SEQ ID NOS: 1124  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1066  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
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QY 63 GATTATGACCATGGAACAGCTCACAGTATATCATTGGAATAAGTACAAGTATTCTTGAT 122  
DB 779 AspTyrAspHisGlyThrAlaHisLysTyrIleleArgIleSerThrSerileLeuAsp 798  
QY 123 CTCAGAGACAAGTTCATGAATCTCTCAAGTGAATATCTGCTCTCATCCCAAGGAA 182  
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QY 243 GATCTT 248  
DB 839 AspLeu 840  
RESULT 5  
US-09-833-263-1066  
; Sequence 1066, Application US/09833263  
; Patent No. US20020110547A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Stoik, John A.  
; APPLICANT: Meagher, Madeleine J.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND  
; FILE REFERENCE: 210121.471C12  
; CURRENT APPLICATION NUMBER: US/09/833,263  
; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 1066  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-833-263-1066  
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QY 63 GATTATGACCATGGAACAGCTCACAGTATATCATTGGAATAAGTACAAGTATTCTTGAT 122  
DB 779 AspTyrAspHisGlyThrAlaHisLysTyrIleleArgIleSerThrSerileLeuAsp 798  
QY 123 CTCAGAGACAAGTTCATGAATCTCTCAAGTGAATATCTGCTCTCATCCCAAGGAA 182  
DB 799 LeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuileProLysGlu 818  
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US-09-981-353-192  
; Sequence 192, Application US/09981353  
; Patent No. US20020160382A1  
; GENERAL INFORMATION:  
; APPLICANT: Lasek, Amy W.  
; APPLICANT: Jones, David A.  
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
; FILE REFERENCE: PA-0038 US

QY 123 CTCAGAGACAAGTTCATGAATCTCTCAAGTGAATATCTGCTCTCATCCCAAGGAA 182  
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QY 243 GATCTT 248  
DB 839 AspLeu 840  
RESULT 5  
US-09-833-263-1066  
; Sequence 1066, Application US/09833263  
; Patent No. US20020110547A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Stoik, John A.  
; APPLICANT: Meagher, Madeleine J.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND  
; FILE REFERENCE: 210121.471C12  
; CURRENT APPLICATION NUMBER: US/09/833,263  
; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 1066  
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; TYPE: PRT  
; ORGANISM: Homo sapiens  
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QY 63 GATTATGACCATGGAACAGCTCACAGTATATCATTGGAATAAGTACAAGTATTCTTGAT 122  
DB 779 AspTyrAspHisGlyThrAlaHisLysTyrIleleArgIleSerThrSerileLeuAsp 798  
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; Sequence 192, Application US/09981353  
; Patent No. US20020160382A1  
; GENERAL INFORMATION:  
; APPLICANT: Lasek, Amy W.  
; APPLICANT: Jones, David A.  
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
; FILE REFERENCE: PA-0038 US

; CURRENT APPLICATION NUMBER: US/09/981,353  
; CURRENT FILING DATE: 2001-10-11  
; NUMBER OF SEQ ID NOS: 194  
; SOFTWARE: PERL Program  
; SEQ ID NO 192  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CD1  
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QY 63 GATTATGACCATGGAACAGCTCACAAGTATATCATTCGAATAGTACAAGTATTCTTGAT 122  
DB 779 AspTyrAspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAsp 798  
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DB 799 LeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGlu 818  
QY 183 GCCAACTCTGAGGAAGTCTTTTGTGTTAAACAGAAAAACATTACTTTTGAATAATGGCACA 242  
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DB 839 AspLeu 840

## RESULT 7

US-09-833-245-2054  
; Sequence 2054, Application US/09833245  
; Publication No. US20040010134A1  
; GENERAL INFORMATION:  
; APPLICANT: Human Genome Sciences, Inc.  
; TITLE OF INVENTION: Albumin Fusion Proteins  
; FILE REFERENCE: PF546PCT  
; CURRENT APPLICATION NUMBER: US/09/833,245  
; CURRENT FILING DATE: 2001-04-12  
; PRIOR APPLICATION NUMBER: 60/229,358  
; PRIOR FILING DATE: 2000-04-12  
; PRIOR APPLICATION NUMBER: 60/256,931  
; PRIOR FILING DATE: 2000-12-21  
; PRIOR APPLICATION NUMBER: 60/199,384  
; PRIOR FILING DATE: 2000-04-25  
; NUMBER OF SEQ ID NOS: 2267  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 2054  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-833-245-2054

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Pred. No.: 1,52e-45 Length: 914  
Score: 427.00 Matches: 82  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0

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DB 779 AspTyrAspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAsp 798  
QY 123 CTCAGAGACAAGTCAATCAATCTCTCAAGTGAATACTACTGCTCTCATCCAAAGGAA 182  
DB 799 LeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGlu 818  
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DB 819 AlaAsnSerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThr 838  
QY 243 GATCTT 248  
DB 839 AspLeu 840

## RESULT 8

US-10-025-380-1066  
; Sequence 1066, Application US/10025380  
; Publication No. US20020182191A1  
; GENERAL INFORMATION:  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Mesgher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Yugu  
; APPLICANT: Smith, Carole L.  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Skeiky, Yasir A. W.  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Vedwick, Thomas S.  
; APPLICANT: Carter, Darrick  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; FILE REFERENCE: 210121.471C14  
; CURRENT APPLICATION NUMBER: US/10/025,380  
; CURRENT FILING DATE: 2001-12-19  
; NUMBER OF SEQ ID NOS: 1129  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1066  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-025-380-1066

Alignment Scores:  
Pred. No.: 1,52e-45 Length: 914  
Score: 427.00 Matches: 82  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
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QY 243 GATCTT 248
Db 839 AspLeu 840

RESULT 9
US-10-055-412B-28
; Sequence 28, Application US/10055412B
; Publication No. US20030059861A1
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0058
; CURRENT APPLICATION NUMBER: US/10/055,412B
; PRIOR FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: US/09/193,562
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 28
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-055-412B-28

Alignment Scores:
Pred. No.: 1.52e-45 Length: 914
Score: 427.00 Matches: 82
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 14 Gaps: 0

US-09-049-696-14 (1-248) x US-10-055-412B-28 (1-914)
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QY 63 GATTATGACCATGGACAGCTCACAGTATATCATTCGAATATAGTACAAAGTATCTTGAT 122
Db 779 AspTyrAspHisGlyThrAlaHisLysTyrIleArgIleSerThrSerIleLeuAsp 798
QY 123 CTCAGAGCAAGTCTCAATGAATCTTCAAGTGAATACCTACTCTCATCCCAAGGAA 182
Db 799 LeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuLeuProLysGlu 818
QY 183 GCCAACTCTGAGGAAGTCTTTTGTAAACAGAAACATTACTCTTTGAAATGCGACA 242
Db 819 AlaAsnSerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThr 838
QY 243 GATCTT 248
Db 839 AspLeu 840

RESULT 10
US-10-270-595-6
; Sequence 6, Application US/10270595
; Publication No. US20030078409A1
; GENERAL INFORMATION:
; APPLICANT: Magainin Pharmaceuticals, Inc.
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; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related
; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/10/270,595
; CURRENT FILING DATE: 2002-10-16
; PRIOR APPLICATION NUMBER: US/09/623,624
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-270-595-6

Alignment Scores:
Pred. No.: 1.52e-45 Length: 914
Score: 427.00 Matches: 82
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 14 Gaps: 0

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QY 63 GATTATGACCATGGACAGCTCACAGTATATCATTCGAATATAGTACAAAGTATCTTGAT 122
Db 779 AspTyrAspHisGlyThrAlaHisLysTyrIleArgIleSerThrSerIleLeuAsp 798
QY 123 CTCAGAGCAAGTCTCAATGAATCTTCAAGTGAATACCTACTCTCTCATCCCAAGGAA 182
Db 799 LeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuLeuProLysGlu 818
QY 183 GCCAACTCTGAGGAAGTCTTTTGTAAACAGAAACATTACTCTTTGAAATGCGACA 242
Db 819 AlaAsnSerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThr 838
QY 243 GATCTT 248
Db 839 AspLeu 840

RESULT 11
US-10-235-994-26
; Sequence 26, Application US/10235994
; Publication No. US20030101002A1
; GENERAL INFORMATION:
; APPLICANT: Bartha, Gabor
; APPLICANT: Walker, Michael
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS
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; FILE REFERENCE: ICYTP012
; CURRENT APPLICATION NUMBER: US/10/235,994
; CURRENT FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: US/10/003,608
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,081
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Human
US-10-235-994-26

Alignment Scores:
Pred. No.: 1,528-45 Length: 914
Score: 427.00 Matches: 82
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 14 Gaps: 0

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QY 63 GATTATGACCATGGAACTCACAAGTATATCATTCGAATAAGTACAAAGTATCTTGAT 122
Db 779 AspTyrAspHisGlyThrAlaHisLysTyrIlelleArgIleSerThrSerileLeuAsp 798
QY 123 CTCAGAGACAAGTTCAATGAATCTCTCAAGTGAATATCTACTGCTCTCATCCAAAGGAA 182
Db 799 LeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGlu 818
QY 183 GCCAACTCTGAGGAAGTCTTTTGTGTTAAACAGAAAAACATTACTTTTGAATAATGGCACA 242
Db 819 AlaAsnSerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThr 838
QY 243 GATCTT 248
Db 839 AspLeu 840

RESULT 12
US-10-060-255-42
; Sequence 42, Application US/10060255
; Publication No. US20030113840A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 25 Human secreted proteins
; FILE REFERENCE: P2042P1
; CURRENT APPLICATION NUMBER: US/10/060,255
; CURRENT FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: 09/781,417
; PRIOR FILING DATE: 2001-02-13
; PRIOR APPLICATION NUMBER: PCT/US00/22325
; PRIOR FILING DATE: 2000-08-16
; PRIOR APPLICATION NUMBER: 60/149,182
; PRIOR FILING DATE: 1999-08-17
; NUMBER OF SEQ ID NOS: 86
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 42
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-060-255-42

Alignment Scores:
Pred. No.: 1,528-45 Length: 914
Score: 427.00 Matches: 82
Percent Similarity: 100.00% Conservative: 0
Query Match: 100.00% Indels: 0
DB: 14 Gaps: 0

US-09-049-696-14 (1-248) x US-10-235-994-26 (1-914)

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QY 63 GATTATGACCATGGAACTCACAAGTATATCATTCGAATAAGTACAAAGTATCTTGAT 122
Db 779 AspTyrAspHisGlyThrAlaHisLysTyrIlelleArgIleSerThrSerileLeuAsp 798
QY 123 CTCAGAGACAAGTTCAATGAATCTCTCAAGTGAATATCTACTGCTCTCATCCAAAGGAA 182
Db 799 LeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGlu 818
QY 183 GCCAACTCTGAGGAAGTCTTTTGTGTTAAACAGAAAAACATTACTTTTGAATAATGGCACA 242
Db 819 AlaAsnSerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThr 838
QY 243 GATCTT 248
Db 839 AspLeu 840

RESULT 13
US-09-764-868-635
; Sequence 635, Application US/09764868
; Patent No. US20020168711A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT232
; CURRENT APPLICATION NUMBER: US/09/764,868
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1510
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 635
; LENGTH: 925
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-764-868-635

Alignment Scores:
Pred. No.: 1,528-45 Length: 925
Score: 427.00 Matches: 82
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-09-049-696-14 (1-248) x US-09-764-868-635 (1-925)

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QY 123 CTCAGAGACAAGTTCAATGAATCTCTCAAGTGAATATCTACTGCTCTCATCCAAAGGAA 182
Db 810 LeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGlu 829
QY 183 GCCAACTCTGAGGAAGTCTTTTGTGTTAAACAGAAAAACATTACTTTTGAATAATGGCACA 242
Db 830 AlaAsnSerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThr 849
QY 243 GATCTT 248
Db 839 AspLeu 840
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; FILE REFERENCE: ICYTP012
; CURRENT APPLICATION NUMBER: US/10/235,994
; CURRENT FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: US/10/003,608
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,081
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Human
US-10-235-994-26

Alignment Scores:
Pred. No.: 1,528-45 Length: 914
Score: 427.00 Matches: 82
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 14 Gaps: 0

US-09-049-696-14 (1-248) x US-10-060-255-42 (1-914)

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QY 63 GATTATGACCATGGAACTCACAAGTATATCATTCGAATAAGTACAAAGTATCTTGAT 122
Db 779 AspTyrAspHisGlyThrAlaHisLysTyrIlelleArgIleSerThrSerileLeuAsp 798
QY 123 CTCAGAGACAAGTTCAATGAATCTCTCAAGTGAATATCTACTGCTCTCATCCAAAGGAA 182
Db 799 LeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGlu 818
QY 183 GCCAACTCTGAGGAAGTCTTTTGTGTTAAACAGAAAAACATTACTTTTGAATAATGGCACA 242
Db 819 AlaAsnSerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThr 838
QY 243 GATCTT 248
Db 839 AspLeu 840

RESULT 13
US-09-764-868-635
; Sequence 635, Application US/09764868
; Patent No. US20020168711A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT232
; CURRENT APPLICATION NUMBER: US/09/764,868
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1510
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 635
; LENGTH: 925
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-764-868-635

Alignment Scores:
Pred. No.: 1,528-45 Length: 925
Score: 427.00 Matches: 82
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
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US-09-049-696-14 (1-248) x US-09-764-868-635 (1-925)

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QY 63 GATTATGACCATGGAACTCACAAGTATATCATTCGAATAAGTACAAAGTATCTTGAT 122
Db 790 AspTyrAspHisGlyThrAlaHisLysTyrIlelleArgIleSerThrSerileLeuAsp 809
QY 123 CTCAGAGACAAGTTCAATGAATCTCTCAAGTGAATATCTACTGCTCTCATCCAAAGGAA 182
Db 810 LeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGlu 829
QY 183 GCCAACTCTGAGGAAGTCTTTTGTGTTAAACAGAAAAACATTACTTTTGAATAATGGCACA 242
Db 830 AlaAsnSerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThr 849
QY 243 GATCTT 248
Db 839 AspLeu 840
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Db 850 AspLeu 851

RESULT 14

US-10-106-698-6248

; Sequence 6248, Application US/10106698

; Publication No. US20030109690A1

; GENERAL INFORMATION:

; APPLICANT: Ruben et al.

; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide

; FILE REFERENCE: PA005P1

; CURRENT APPLICATION NUMBER: US/10/106,698

; CURRENT FILING DATE: 2002-03-27

; PRIOR APPLICATION NUMBER: PCT/US00/26524

; PRIOR FILING DATE: 2000-09-28

; PRIOR APPLICATION NUMBER: US 60/157,137

; PRIOR FILING DATE: 1999-09-29

; PRIOR APPLICATION NUMBER: US 60/163,280

; PRIOR FILING DATE: 1999-11-03

; NUMBER OF SEQ ID NOS: 8564

; SOFTWARE: PatentIn Ver. 3.0

; SEQ ID NO 6248

; LENGTH: 925

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-106-698-6248

Alignment Scores:

Pred. No.: 1,52e-45 Length: 925

Score: 427.00 Matches: 82

Percent Similarity: 100.00% Conservative: 0

Best Local Similarity: 100.00% Mismatches: 0

Query Match: 100.00% Indels: 0

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QY 63 GATTATGACCATGGACAGCTCACAGTATATCATTCGAATTAAGTACAAAGTATTTCTTGAT 122

Db 790 AspTyrAspHisGlyThrAlaHisLysTyrIleLeuArgIleSerThrSerIleLeuAsp 809

QY 123 CTCAGAGACAAGTTCAAATCAATCTCTCAAGTGAATACCTCTCATCCCAAGGAA 182

Db 810 LeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGlu 829

QY 183 GCCAACTCTGAGAGAGTCTTTTGTAAACCCAGAAAACATTACTTTTCAAAATGGCACA 242

Db 830 AlaAsnSerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThr 849

QY 243 GATCTT 248

Db 850 AspLeu 851

RESULT 15

US-10-369-214-133

; Sequence 133, Application US/10369214

; Publication No. US2003023037A1

; GENERAL INFORMATION:

; APPLICANT: Groot, Pieter C.

; APPLICANT: Bergenhenegouwen van, Bram J.

; APPLICANT: Oosterhout van, Antoon J.M.

; TITLE OF INVENTION: Genes involved in immune related responses observed

; TITLE OF INVENTION: with asthma

; FILE REFERENCE: P53837US00

; CURRENT APPLICATION NUMBER: US/10/369,214

; CURRENT FILING DATE: 2003-02-15

; PRIOR APPLICATION NUMBER: EP 00202867.8

; PRIOR FILING DATE: 2000-08-16

; PRIOR APPLICATION NUMBER: PCT/NL01/00610

; PRIOR FILING DATE: 2001-08-16

; NUMBER OF SEQ ID NOS: 139

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 133

; LENGTH: 914

; TYPE: PRT

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: SITE

; LOCATION: (1)..(914)

; OTHER INFORMATION: /note="Human CLCA1"

US-10-369-214-133

Alignment Scores:

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Percent Similarity: 98.78% Conservative: 0

Best Local Similarity: 98.78% Mismatches: 1

Query Match: 98.83% Indels: 0

DB: 15 Gaps: 0

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Db 759 LeuAsnAlaGluIleHisGlySerLeuIleAsnLeuThrTriphrAlaProGlyAsp 778

QY 63 GATTATGACCATGGACAGCTCACAGTATATCATTCGAATTAAGTACAAAGTATTTCTTGAT 122

Db 779 AspTyrAspHisGlyThrAlaHisLysTyrIleLeuArgIleSerThrSerIleLeuAsp 798

QY 123 CTCAGAGACAAGTTCAAATCAATCTCTCAAGTGAATACCTCTCATCCCAAGGAA 182

Db 799 LeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGlu 818

QY 183 GCCAACTCTGAGAGAGTCTTTTGTAAACCCAGAAAACATTACTTTTCAAAATGGCACA 242

Db 819 AlaAsnSerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThr 838

QY 243 GATCTT 248

Db 839 AspLeu 840

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Job time : 39.7047 secs

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Perfect score: 427  
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Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
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Searched: 389414 seqs, 51625971 residues

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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	427	100.0	914	4	US-09-193-562D-28
5	427	100.0	914	4	US-09-623-624-6
6	304	71.2	913	4	US-09-623-624-2
7	259.5	60.8	917	4	US-09-049-698-41
8	210.5	49.3	902	4	US-09-193-562D-34
9	195	45.7	903	4	US-09-193-562D-3
10	195	45.7	905	4	US-09-193-562D-2
11	190	44.5	903	4	US-09-193-562D-46
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13	189.5	44.4	1000	4	US-09-193-562D-30	Sequence 30, Appl
14	159	37.2	920	4	US-09-643-597-357	Sequence 357, Appl
15	159	37.2	942	4	US-09-919-172-87	Sequence 87, Appl
16	159	37.2	943	4	US-09-193-562D-32	Sequence 32, Appl
17	159	37.2	943	4	US-09-643-597-161	Sequence 161, Appl
18	159	37.2	943	4	US-09-480-884A-161	Sequence 161, Appl
19	159	37.2	943	4	US-09-542-615A-161	Sequence 161, Appl
20	159	37.2	943	4	US-09-606-421B-161	Sequence 161, Appl
21	159	37.2	943	4	US-09-623-624-4	Sequence 4, Appli
22	159	37.2	943	4	US-09-221-107-161	Sequence 45, Appl
23	70.5	16.5	40	4	US-09-049-698-45	Sequence 45, Appl
24	70.5	16.5	1761	4	US-09-489-039A-11234	Sequence 11234, A
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36	66	15.3	469	4	US-09-347-650-16	Sequence 16, Appl
37	65	15.2	283	1	US-08-726-227-4	Sequence 4, Appli
38	65	15.1	908	3	US-08-823-110-1	Sequence 1, Appli
39	65	15.1	908	3	US-08-604-298-1	Sequence 18, Appl
40	64	15.0	166	5	PCT-US95-03866-18	Sequence 18, Appl
41	64	15.0	443	4	US-09-134-000C-4824	Sequence 4824, Ap
42	64	14.8	481	3	US-08-617-785-8	Sequence 8, Appli
43	64	14.8	481	4	US-09-817-464-8	Sequence 8, Appli
44	64	14.8	604	4	US-09-820-809-13	Sequence 13, Appl
45	64	14.8	867	3	US-08-617-785-4	Sequence 4, Appli

ALIGNMENTS

RESULT 1  
US-08-469-667-9  
; Sequence 9, Application US/08469667  
; Patent No. 5733748  
; GENERAL INFORMATION:  
; APPLICANT: Yu, Guo-Liang  
; APPLICANT: Rosen, Craig  
; TITLE OF INVENTION: Colon Specific Genes and Proteins  
; NUMBER OF SEQUENCES: 24  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,  
; ADDRESSEE: Stewart & Olstein  
; STREET: 6 Becker Farm Road  
; CITY: Roseland  
; STATE: NJ  
; COUNTRY: USA  
; ZIP: 07068-1739  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/469,667  
; FILING DATE: 06-JUN-1995  
; CLASSIFICATION: 536  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Ferrari, Gregory D.  
; REGISTRATION NUMBER: 36,134  
; REFERENCE/DOCKET NUMBER: 325800-435  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 201-994-1700  
; TELEFAX: 201-994-1744  
; INFORMATION FOR SEQ ID NO: 9:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 228 amino acids

;  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-469-667-9

Alignment Scores:  
Pred. No.: 6,06e-51 Length: 228  
Score: 427.00 Matches: 82  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 1 Gaps: 0

US-09-049-696-14 (1-248) x US-08-469-667-9 (1-228)

QY 3 CTGAAGCGGAATTCACGGGGCAGTCTCAATTAATCTGACTTGGACAGCTCTCTGGGGAT 62  
DB 103 LeuLysAlaGluLeuHisGlySerLeuIleAsnLeuThrTriphrAlaProGlyAsp 122  
QY 63 GATTATGACCATGGACAGCTCACAGTATATCATTCAAGTAAGTACAAAGTATTCTTGAT 122  
DB 123 AspTyrAspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAsp 142  
QY 123 CTCAGAGACAAAGTTCAATGAATCTCTCAAGTGAATCTACTCTCTCATCCCAAAGGAA 182  
DB 143 LeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGlu 162  
QY 183 GCCAACTCTGAGAAAGTCTTTTGTGTTTAAACAGAAAACATTACTTTGAAAATGGCACA 242  
DB 163 AlaAsnSerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThr 182  
QY 243 GATCTT 248  
DB 183 AspLeu 184

## RESULT 2

US-09-224-110-9  
; Sequence 9, Application US/09224110  
; Patent No. 6337195  
; GENERAL INFORMATION:  
; APPLICANT: Yu, Guo-Liang  
; APPLICANT: Rosen, Craig  
; TITLE OF INVENTION: Colon Specific Genes and Proteins  
; NUMBER OF SEQUENCES: 24  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,  
; ADDRESSEE: Stewart & Olstein  
; STREET: 6 Becker Farm Road  
; CITY: Roseland  
; STATE: NJ  
; COUNTRY: USA  
; ZIP: 07068-1739  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/224,110  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA: 08/459,667  
; APPLICATION NUMBER: 08/459,667  
; FILING DATE: 06-JUN-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Ferraro, Gregory D.  
; REGISTRATION NUMBER: 36,134  
; REFERENCE/DOCKET NUMBER: 325800-435  
; TELEPHONE: 201-994-1700  
; TELEFAX: 201-994-1744  
; INFORMATION FOR SEQ ID NO: 9:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 228 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear

;  
; LENGTH: 228 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-224-110-9

Alignment Scores:  
Pred. No.: 6,06e-51 Length: 228  
Score: 427.00 Matches: 82  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-14 (1-248) x US-09-224-110-9 (1-228)

QY 3 CTGAAGCGGAATTCACGGGGCAGTCTCAATTAATCTGACTTGGACAGCTCTCTGGGGAT 62  
DB 103 LeuLysAlaGluLeuHisGlySerLeuIleAsnLeuThrTriphrAlaProGlyAsp 122  
QY 63 GATTATGACCATGGACAGCTCACAGTATATCATTCAAGTAAGTACAAAGTATTCTTGAT 122  
DB 123 AspTyrAspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAsp 142  
QY 123 CTCAGAGACAAAGTTCAATGAATCTCTCAAGTGAATCTACTCTCTCATCCCAAAGGAA 182  
DB 143 LeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGlu 162  
QY 183 GCCAACTCTGAGAAAGTCTTTTGTGTTTAAACAGAAAACATTACTTTGAAAATGGCACA 242  
DB 163 AlaAsnSerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThr 182  
QY 243 GATCTT 248  
DB 183 AspLeu 184

## RESULT 3

PCT-US95-07289-9  
; Sequence 9, Application PC/TUS9507289  
; GENERAL INFORMATION:  
; APPLICANT: Yu, Guo-Liang  
; APPLICANT: Rosen, Craig  
; TITLE OF INVENTION: Colon Specific Genes and Proteins  
; NUMBER OF SEQUENCES: 24  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,  
; ADDRESSEE: Stewart & Olstein  
; STREET: 6 Becker Farm Road  
; CITY: Roseland  
; STATE: NJ  
; COUNTRY: USA  
; ZIP: 07068-1739  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US95/07289  
; FILING DATE: 06-JUN-1995  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Ferraro, Gregory D.  
; REGISTRATION NUMBER: 36,134  
; REFERENCE/DOCKET NUMBER: 325800-265  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 201-994-1700  
; TELEFAX: 201-994-1744  
; INFORMATION FOR SEQ ID NO: 9:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 228 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear



Db 799 LeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGlu 818  
QY 183 GCCAACTCTGAGAGTCTTTTGTAAACAGAAAACATTACTTTGAAAATGGCACA 242  
Db 819 AlaAsnSerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThr 838  
QY 243 GATCTT 248  
Db 839 AspLeu 840

## RESULT 6

US-09-623-624-2  
; Sequence 2, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patent in Ver. 2.0  
; SEQ ID NO 2  
; TYPE: PRT  
; ORGANISM: Mus musculus

## US-09-623-624-2

Alignment Scores:  
Pred. No.: 1,416-33 Length: 913  
Score: 304.00 Matches: 59  
Percent Similarity: 81.71% Conservative: 8  
Best Local Similarity: 71.95% Mismatches: 15  
Query Match: 71.19% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-14 (1-248) x US-09-623-624-2 (1-913)

QY 3 CTGAAGCGGGAATTCACGGGCGAGTCTCAATTAATCTGACTTGGACAGCTCTGGGAT 62  
Db 759 LeuLysAlaSerIleGlnGlyGlnAsnLeuValAsnLeuThrTrpThralaProGlyAsp 778  
QY 63 GATTATGACATGGAACAGCTCACAGTATATCATTCGAATAGTACAAAGTATCTTGAT 122  
Db 779 AspTyrAspHisGlyArgAlaSerAsnTyrlleIleArgMetSerThrSerIleValaAsp 798

QY 123 CTCAGAGACAAGTTCATGAATCTCTCAAGTGAATACTACTGCTCTCATCCAAAGGAA 182  
Db 799 LeuArgAspHisPheAsnThrSerLeuGlnValAsnThrThrGlyLeuIleProLysGlu 818  
QY 183 GCCAACTCTGAGAGTCTTTTGTAAACAGAAAACATTACTTTGAAAATGGCACA 242  
Db 819 AlaSerGluGluIlePheGluLeuGlyGlyAsnThrPheGlyAsnGlyThr 838  
QY 243 GATCTT 248  
Db 839 AspIle 840

## RESULT 7

US-09-049-698-41  
; Sequence 41, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITTS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLASS, MICHAEL R.  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park  
; STATE: IL  
; COUNTRY: USA  
; ZIP: 60064-3500  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/049,698  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/828,856  
; FILING DATE: 31-MAR-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Becker, Cheryl L.  
; REGISTRATION NUMBER: 35,441  
; REFERENCE/DOCKET NUMBER: 6068.US.P1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 847/935-1729  
; TELEFAX: 847/938-2623  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 41:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 917 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: No. 6368792e  
US-09-049-698-41

## Alignment Scores:

Pred. No.: 2,296-27 Length: 917  
Score: 259.50 Matches: 52  
Percent Similarity: 76.81% Conservative: 11  
Best Local Similarity: 63.41% Mismatches: 18  
Query Match: 60.77% Indels: 1  
DB: 4 Gaps: 1







```
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 30
; LENGTH: 1000
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-193-562D-30

Alignment Scores:
Pred. No.: 1.36e-17 Length: 1000
Score: 189.50 Matches: 41
Percent Similarity: 63.75% Conservative: 10
Best Local Similarity: 51.25% Mismatches: 28
Query Match: 44.38% Indels: 1
DB: 4 Gaps: 1

US-09-049-696-14 (1-248) x US-09-193-562D-30 (1-1000)
QY 3 CTGAAGCGGAAATTCACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGAT 62
Db 784 LeuGluAlaLysPheGlnGlyAspHis---IleGlnLeuSerTrpThrAlaProGlyLys 802
QY 63 GATTATGACATGGAACAGCTCAAGTATATATCATTCGAATAAGTACAAAGTATCTTGAT 122
Db 803 ValLeuAspGlyGlyArgAlaGluSerTyrIleIleArgIleSerLysHisPheLeuAsp 822
QY 123 CTCAGACAGCAAGTTCATGAATCTCTCAAGTCAATCTGCTCTCATCCCAAGGAA 182
Db 823 LeuGlnGluAspPheAspLysAlaAlaLeuIleAsnThrSerGlyLeuIleProLysGlu 842
QY 183 GCCAACTCTGAGGAGCTCTTTTGGTTTAAACAGAAACATTACTTTTGAATAATGGCACA 242
Db 843 ProGlySerValGluSerPheGluPheLysProGluProSerLysIleGluAsnGlyThr 862

RESULT 14
US-09-643-597-357
; Sequence 357, Application US/09643597
; Patent No. 6426072
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Panger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Henderson, Robert A.
; APPLICANT: McNeill, Patricia D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455C11
; CURRENT APPLICATION NUMBER: US/09/643,597
; CURRENT FILING DATE: 2000-08-21
; NUMBER OF SEQ ID NOS: 369
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 357
; LENGTH: 920
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-643-597-357

Alignment Scores:
Pred. No.: 2.37e-13 Length: 920
Score: 159.00 Matches: 30
Percent Similarity: 66.20% Conservative: 17
Best Local Similarity: 42.25% Mismatches: 22
Query Match: 37.24% Indels: 2
DB: 4 Gaps: 1

US-09-049-696-14 (1-248) x US-09-643-597-357 (1-920)
QY 33 ATTAATCTGACTTGGACAGCTCTCTGGGATGATTATGACCATGGAACAGCTCAAGTAT 92
Db 758 LeuThrLeuSerTrpThrAlaProGlyGluAspPheAspGlnGlyGlnAlaThrSerTyr 777
QY 93 ATCATTGCAATAAGTACAAAGTATCTTGTATCTCAGACAGCAAGTTCATGAATCTCTTCAA 152
Db 778 GluIleArgMetSerLysSerLeuGlnAsnIleGlnAspPheAsnAsnAlaIleLeu 797
QY 153 GTGAATCTACTGCTCTCATCCCAAGGAGCAACTCTGAGGAAGTCTTTTGTTTTAA 212
Db 798 ValAsnThrSerLysArgAsnProGlnGlnAlaGlyIleArgGluIlePheThrPheSer 817
QY 213 CCAGAAACATTACTTTTGAATAATGGCAGAT 245
Db 818 ProGlnIleSerThr-----AsnGlyProGlu 826

RESULT 15
US-09-919-172-87
; Sequence 87, Application US/09919172
; Patent No. 6673545
; GENERAL INFORMATION:
; APPLICANT: Paris, Mary
; APPLICANT: Turner, Christopher M.
; TITLE OF INVENTION: PROSTATE CANCER MARKERS
; FILE REFERENCE: PA-0036 US
; CURRENT APPLICATION NUMBER: US/09/919,172
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/222,469
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 102
; SOFTWARE: PERL Program
; SEQ ID NO 87
; LENGTH: 942
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6673545 2733282CD1
US-09-919-172-87

Alignment Scores:
Pred. No.: 2.39e-13 Length: 942
Score: 159.00 Matches: 30
Percent Similarity: 66.20% Conservative: 17
Best Local Similarity: 42.25% Mismatches: 22
Query Match: 37.24% Indels: 2
DB: 4 Gaps: 1

US-09-049-696-14 (1-248) x US-09-919-172-87 (1-942)
QY 33 ATTAATCTGACTTGGACAGCTCTCTGGGATGATTATGACCATGGAACAGCTCAAGTAT 92
Db 780 LeuThrLeuSerTrpThrAlaProGlyGluAspPheAspGlnGlyGlnAlaThrSerTyr 799
QY 93 ATCATTGCAATAAGTACAAAGTATCTTGTATCTCAGACAGCAAGTTCATGAATCTCTTCAA 152
Db 800 GluIleArgMetSerLysSerLeuGlnAsnIleGlnAspPheAsnAsnAlaIleLeu 819
QY 153 GTGAATCTACTGCTCTCATCCCAAGGAGCAACTCTGAGGAAGTCTTTTGTTTTAA 212
Db 820 ValAsnThrSerLysArgAsnProGlnGlnAlaGlyIleArgGluIlePheThrPheSer 839
QY 213 CCAGAAACATTACTTTTGAATAATGGCAGAT 245
Db 818 ProGlnIleSerThr-----AsnGlyProGlu 826
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Db 840 ProGlnIleSerThr-----AsnGlyProGlu 848

Search completed: April 21, 2004, 16:22:25  
Job time : 16.6553 secs

d6 47 GACACCAGCAAAATTTCCCCAGCCCTCTGGTAGTTTATGCAAAATATTCGCCAAGGAGCCTCC 106

QY 61 CCAATTTCTCAGGCGCCAGTGTCTCAGCCCTGATTGAATCAAGTGAATGGAAGAAACAGTTACC 120  
Db 107 CCAATTTCTCAGGCGCCAGTGTCTCAGCCCTGATTGAATCAAGTGAATGGAAGAAACAGTTACC 166  
QY 121 TTGGAACACTCTGGATAATGGAGCAGGTGCTGATGCTTAAAGATGACGGTGTCTACTCA 180  
Db 167 TTGGAACACTCTGGATAATGGAGCAGGTGCTGATGCTTAAAGATGACGGTGTCTACTCA 226  
QY 181 AGGTATTTTCCAACTTTATGACACGGAATGGTAGATACAGTGAATGAGTGGGGCTC 235  
Db 227 AGGTATTTTCCAACTTTATGACACGGAATGGTAGATACAGTGAATGAGTGGGGCTC 281

## RESULT 2

US-10-066-543-2407/c  
; Sequence 2407, Application US/10066543  
; Publication No. US20030087818A1  
; GENERAL INFORMATION:

; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Pyle, Ruth A.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Indirias, Carol Yoseph  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Carter, Darrick  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Smith, Carole L.  
; APPLICANT: Durham, Margarita  
; APPLICANT: Stolk, John A.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; FILE REFERENCE: 210121.563  
; CURRENT APPLICATION NUMBER: US/10/066,543  
; CURRENT FILING DATE: 2002-01-31  
; NUMBER OF SEQ ID NOS: 3417  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2407  
; LENGTH: 455  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-066-543-2407

Query Match 100.0%; Score 235; DB 15; Length 455;  
Best Local Similarity 100.0%; Pred. No. 1.1e-69;  
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACACAGCAAAATTCCTCCAGCCCTCTGGTAGTTTATGCAAAATATTGCGCAAGGAGCCTCC 60  
Db 292 GACACAGCAAAATTCCTCCAGCCCTCTGGTAGTTTATGCAAAATATTGCGCAAGGAGCCTCC 233  
QY 61 CCAATTTCTCAGGCGCCAGTGTCTCAGCCCTGATTGAATCAAGTGAATGGAAGAAACAGTTACC 120  
Db 232 CCAATTTCTCAGGCGCCAGTGTCTCAGCCCTGATTGAATCAAGTGAATGGAAGAAACAGTTACC 173  
QY 121 TTGGAACACTCTGGATAATGGAGCAGGTGCTGATGCTTAAAGATGACGGTGTCTACTCA 180  
Db 172 TTGGAACACTCTGGATAATGGAGCAGGTGCTGATGCTTAAAGATGACGGTGTCTACTCA 113  
QY 181 AGGTATTTTCCAACTTTATGACACGGAATGGTAGATACAGTGAATGAGTGGGGCTC 235  
Db 112 AGGTATTTTCCAACTTTATGACACGGAATGGTAGATACAGTGAATGAGTGGGGCTC 58

## RESULT 3

US-10-066-543-1693  
; Sequence 1693, Application US/10066543  
; Publication No. US20030087818A1  
; GENERAL INFORMATION:

; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Pyle, Ruth A.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Indirias, Carol Yoseph  
; APPLICANT: Lodes, Michael J.

; APPLICANT: Secrist, Heather  
; APPLICANT: Carter, Darrick  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Smith, Carole L.  
; APPLICANT: Durham, Margarita  
; APPLICANT: Stolk, John A.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; FILE REFERENCE: 210121.563  
; CURRENT APPLICATION NUMBER: US/10/066,543  
; CURRENT FILING DATE: 2002-01-31  
; NUMBER OF SEQ ID NOS: 3417  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1693  
; LENGTH: 507  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-066-543-1693

Query Match 100.0%; Score 235; DB 15; Length 507;  
Best Local Similarity 100.0%; Pred. No. 1.1e-69;  
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACACAGCAAAATTCCTCCAGCCCTCTGGTAGTTTATGCAAAATATTGCGCAAGGAGCCTCC 60  
Db 227 GACACAGCAAAATTCCTCCAGCCCTCTGGTAGTTTATGCAAAATATTGCGCAAGGAGCCTCC 286  
QY 61 CCAATTTCTCAGGCGCCAGTGTCTCAGCCCTGATTGAATCAAGTGAATGGAAGAAACAGTTACC 120  
Db 287 CCAATTTCTCAGGCGCCAGTGTCTCAGCCCTGATTGAATCAAGTGAATGGAAGAAACAGTTACC 346  
QY 121 TTGGAACACTCTGGATAATGGAGCAGGTGCTGATGCTTAAAGATGACGGTGTCTACTCA 180  
Db 347 TTGGAACACTCTGGATAATGGAGCAGGTGCTGATGCTTAAAGATGACGGTGTCTACTCA 406  
QY 181 AGGTATTTTCCAACTTTATGACACGGAATGGTAGATACAGTGAATGAGTGGGGCTC 235  
Db 407 AGGTATTTTCCAACTTTATGACACGGAATGGTAGATACAGTGAATGAGTGGGGCTC 461

## RESULT 4

US-10-033-528-1851/c  
; Sequence 1851, Application US/10033528  
; Publication No. US20020131971A1  
; GENERAL INFORMATION:

; APPLICANT: King, Gordon E.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Secrist, Heather  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; FILE REFERENCE: 210121.547C1  
; CURRENT APPLICATION NUMBER: US/10/033,528  
; CURRENT FILING DATE: 2001-12-26  
; NUMBER OF SEQ ID NOS: 1896  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1851  
; LENGTH: 653  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc-feature  
; LOCATION: 7,41  
; OTHER INFORMATION: n = A,T,C or G  
US-10-033-528-1851

Query Match 100.0%; Score 235; DB 14; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.3e-69;  
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACACAGCAAAATTCCTCCAGCCCTCTGGTAGTTTATGCAAAATATTGCGCAAGGAGCCTCC 60  
Db 464 GACACAGCAAAATTCCTCCAGCCCTCTGGTAGTTTATGCAAAATATTGCGCAAGGAGCCTCC 405

Qy	61	COAATTCACAGCCAGTGTACAGCCCTGATTGAATCAGTGAATGAAAAACAGTTACC	120
Db	404	CCAAATTCACAGGCCAGTGTACAGCCCTGATTGAATCAGTGAATGAAAAACAGTTACC	345
Qy	121	TTGGAACACTCTGGATAATGGAGCAGGTGCTGATGCTACTAAGGATGACGGTGCTCTACTCA	180
Db	344	TTGGAACACTCTGGATAATGGAGCAGGTGCTGATGCTACTAAGGATGACGGTGCTCTACTCA	285
Qy	181	AGGTATTTCAACAATTATGACACGAATGGTAGATACAGTGTAAAGTGC GGCGTC	235
Db	284	AGGTATTTCAACAATTATGACACGAATGGTAGATACAGTGTAAAGTGC GGCGTC	230

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; NAME/KEY: CDS
; LOCATION: (1)..(2742)
US-10-270-595-5

Query Match      100.0%; Score 235; DB 15; Length 2745;
Best Local Similarity 100.0%; Pred. No. 2.7e-69;
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACACGACAAATTCCTCCAGCCCTCTGGTAGTTTATGCAAAATATTCGCAAGAGGCTCC 60
DB 1798 GACACGACAAATTCCTCCAGCCCTCTGGTAGTTTATGCAAAATATTCGCAAGAGGCTCC 1857

QY 61 CCAATTCTCAGGGCCAGTGTACAGCCCTGATTGAATCAGTGAATGGAAGAAACAGTTACC 120
DB 1858 CCAATTCTCAGGGCCAGTGTACAGCCCTGATTGAATCAGTGAATGGAAGAAACAGTTACC 1917

QY 121 TTGGAACACTACTGGATAATGAGCAGGTGCTGTATGCTTACTAAGGATGACGGTGTCTACTCA 180
DB 1918 TTGGAACACTACTGGATAATGAGCAGGTGCTGTATGCTTACTAAGGATGACGGTGTCTACTCA 1977

QY 181 AGGTATTTTACAACTTATGACACGAATGCTAGATACAGTGAATGAGTGGGGCTC 235
DB 1978 AGGTATTTTACAACTTATGACACGAATGCTAGATACAGTGAATGAGTGGGGCTC 2032

RESULT 8
US-10-106-698-1971
; Sequence 1971, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
; FILE REFERENCE: PA005P1
; CURRENT APPLICATION NUMBER: US/10/106,698
; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 1971
; LENGTH: 2854
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-106-698-1971

Query Match      100.0%; Score 235; DB 15; Length 2854;
Best Local Similarity 100.0%; Pred. No. 2.8e-69;
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACACGACAAATTCCTCCAGCCCTCTGGTAGTTTATGCAAAATATTCGCAAGAGGCTCC 60
DB 1832 GACACGACAAATTCCTCCAGCCCTCTGGTAGTTTATGCAAAATATTCGCAAGAGGCTCC 1891

QY 61 CCAATTCTCAGGGCCAGTGTACAGCCCTGATTGAATCAGTGAATGGAAGAAACAGTTACC 120
DB 1892 CCAATTCTCAGGGCCAGTGTACAGCCCTGATTGAATCAGTGAATGGAAGAAACAGTTACC 1951

QY 121 TTGGAACACTACTGGATAATGAGCAGGTGCTGTATGCTTACTAAGGATGACGGTGTCTACTCA 180
DB 1952 TTGGAACACTACTGGATAATGAGCAGGTGCTGTATGCTTACTAAGGATGACGGTGTCTACTCA 2011

QY 181 AGGTATTTTACAACTTATGACACGAATGCTAGATACAGTGAATGAGTGGGGCTC 235
DB 2012 AGGTATTTTACAACTTATGACACGAATGCTAGATACAGTGAATGAGTGGGGCTC 2066

RESULT 9
US-10-106-698-351
; Sequence 351, Application US/10106698
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; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
; FILE REFERENCE: PA005P1
; CURRENT APPLICATION NUMBER: US/10/106,698
; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 351
; LENGTH: 2867
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-106-698-351

Query Match      100.0%; Score 235; DB 15; Length 2867;
Best Local Similarity 100.0%; Pred. No. 2.8e-69;
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACACGACAAATTCCTCCAGCCCTCTGGTAGTTTATGCAAAATATTCGCAAGAGGCTCC 60
DB 1836 GACACGACAAATTCCTCCAGCCCTCTGGTAGTTTATGCAAAATATTCGCAAGAGGCTCC 1895

QY 61 CCAATTCTCAGGGCCAGTGTACAGCCCTGATTGAATCAGTGAATGGAAGAAACAGTTACC 120
DB 1896 CCAATTCTCAGGGCCAGTGTACAGCCCTGATTGAATCAGTGAATGGAAGAAACAGTTACC 1955

QY 121 TTGGAACACTACTGGATAATGAGCAGGTGCTGTATGCTTACTAAGGATGACGGTGTCTACTCA 180
DB 1956 TTGGAACACTACTGGATAATGAGCAGGTGCTGTATGCTTACTAAGGATGACGGTGTCTACTCA 2015

QY 181 AGGTATTTTACAACTTATGACACGAATGCTAGATACAGTGAATGAGTGGGGCTC 235
DB 2016 AGGTATTTTACAACTTATGACACGAATGCTAGATACAGTGAATGAGTGGGGCTC 2070

RESULT 10
US-10-055-412B-27
; Sequence 27, Application US/10055412B
; Publication No. US20030059861A1
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0058
; CURRENT APPLICATION NUMBER: US/10/055,412B
; CURRENT FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: US/09/193,562
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 27
; LENGTH: 3007
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-055-412B-27

Query Match      100.0%; Score 235; DB 15; Length 3007;
Best Local Similarity 100.0%; Pred. No. 2.8e-69;
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACACGACAAATTCCTCCAGCCCTCTGGTAGTTTATGCAAAATATTCGCAAGAGGCTCC 60
DB 1844 GACACGACAAATTCCTCCAGCCCTCTGGTAGTTTATGCAAAATATTCGCAAGAGGCTCC 1903

QY 61 CCAATTCTCAGGGCCAGTGTACAGCCCTGATTGAATCAGTGAATGGAAGAAACAGTTACC 120
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Db 1904 CCAATTCTCAGGCCAGTGTCTCAGCCCTGATTGAATCAAGTGAATGAAAAACAGTTACC 1963  
Qy 121 TTGGAACACTACTGGATAATGAGCAGTGTCTGATGCTACTAAGGATGACGGTGTCTACTCA 180  
Db 1964 TTGGAACACTACTGGATAATGAGCAGTGTCTGATGCTACTAAGGATGACGGTGTCTACTCA 2023  
Qy 181 AGGTATTTTCCAACTTATGACACGAATGCTAGATACAGTGTAAAGTGGGGCTC 235  
Db 2024 AGGTATTTTCCAACTTATGACACGAATGCTAGATACAGTGTAAAGTGGGGCTC 2078

## RESULT 11

US-10-106-698-2111  
; Sequence 2111, Application US/10106698  
; Patent No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: Patentin Ver. 3.0  
; SEQ ID NO 2111  
; LENGTH: 3109  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-106-698-2111

Query Match 100.0%; Score 235; DB 15; Length 3109;  
Best Local Similarity 100.0%; Pred. No. 2.9e-69;  
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 GACACAGCAAAATTCGCCAGCCCTCTGGTAGTTTATGCAAAATTCGCCAAGAGGCTCC 60  
Db 1685 GACACAGCAAAATTCGCCAGCCCTCTGGTAGTTTATGCAAAATTCGCCAAGAGGCTCC 1744  
Qy 61 CCAATTCTCAGGCCAGTGTCTCAGCCCTGATTGAATCAAGTGAATGAAAAACAGTTACC 120  
Db 1745 CCAATTCTCAGGCCAGTGTCTCAGCCCTGATTGAATCAAGTGAATGAAAAACAGTTACC 1804  
Qy 121 TTGGAACACTACTGGATAATGAGCAGTGTCTGATGCTACTAAGGATGACGGTGTCTACTCA 180  
Db 1805 TTGGAACACTACTGGATAATGAGCAGTGTCTGATGCTACTAAGGATGACGGTGTCTACTCA 1864  
Qy 181 AGGTATTTTCCAACTTATGACACGAATGCTAGATACAGTGTAAAGTGGGGCTC 235  
Db 1865 AGGTATTTTCCAACTTATGACACGAATGCTAGATACAGTGTAAAGTGGGGCTC 1919

## RESULT 12

US-09-823-356-25  
; Sequence 25, Application US/09823356  
; Patent No. US20010025098A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Kaser, Matthew R.  
; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS

; FILE REFERENCE: PF-0489-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823,356  
; CURRENT FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/039,307  
; PRIOR FILING DATE: 1998 March 13  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PERL Program  
; SEQ ID NO 25  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775  
US-09-823-356-25

Query Match 100.0%; Score 235; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 2.9e-69;  
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 GACACAGCAAAATTCGCCAGCCCTCTGGTAGTTTATGCAAAATTCGCCAAGAGGCTCC 60  
Db 1831 GACACAGCAAAATTCGCCAGCCCTCTGGTAGTTTATGCAAAATTCGCCAAGAGGCTCC 1890  
Qy 61 CCAATTCTCAGGCCAGTGTCTCAGCCCTGATTGAATCAAGTGAATGAAAAACAGTTACC 120  
Db 1891 CCAATTCTCAGGCCAGTGTCTCAGCCCTGATTGAATCAAGTGAATGAAAAACAGTTACC 1950  
Qy 121 TTGGAACACTACTGGATAATGAGCAGTGTCTGATGCTACTAAGGATGACGGTGTCTACTCA 180  
Db 1951 TTGGAACACTACTGGATAATGAGCAGTGTCTGATGCTACTAAGGATGACGGTGTCTACTCA 2010  
Qy 181 AGGTATTTTCCAACTTATGACACGAATGCTAGATACAGTGTAAAGTGGGGCTC 235  
Db 2011 AGGTATTTTCCAACTTATGACACGAATGCTAGATACAGTGTAAAGTGGGGCTC 2065

## RESULT 13

US-09-981-353-191  
; Sequence 191, Application US/09981353  
; Patent No. US20020160382A1  
; GENERAL INFORMATION:  
; APPLICANT: Lasek, Amy W.  
; APPLICANT: Jones, David A.  
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
; FILE REFERENCE: PA-0038 US  
; CURRENT APPLICATION NUMBER: US/09/981,353  
; CURRENT FILING DATE: 2001-10-11  
; NUMBER OF SEQ ID NOS: 194  
; SOFTWARE: PERL Program  
; SEQ ID NO 191  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CB1  
US-09-981-353-191

Query Match 100.0%; Score 235; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 2.9e-69;  
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 GACACAGCAAAATTCGCCAGCCCTCTGGTAGTTTATGCAAAATTCGCCAAGAGGCTCC 60  
Db 1831 GACACAGCAAAATTCGCCAGCCCTCTGGTAGTTTATGCAAAATTCGCCAAGAGGCTCC 1890  
Qy 61 CCAATTCTCAGGCCAGTGTCTCAGCCCTGATTGAATCAAGTGAATGAAAAACAGTTACC 120  
Db 1891 CCAATTCTCAGGCCAGTGTCTCAGCCCTGATTGAATCAAGTGAATGAAAAACAGTTACC 1950  
Qy 121 TTGGAACACTACTGGATAATGAGCAGTGTCTGATGCTACTAAGGATGACGGTGTCTACTCA 180

Db 1951 TTGGAACACTGATTAATGAGCAGCGTCTGATGCTACTTAAGGATCAGCGTCTCTACTCA 2010  
QY 181 AGGTATTTTCCAACTTATCAGCAGCAATGCTAGATACAGTGTAAAGTGGGGCTC 235  
Db 2011 AGGTATTTTCCAACTTATCAGCAGCAATGCTAGATACAGTGTAAAGTGGGGCTC 2065

RESULT 14  
US-10-235-994-25  
; Sequence 25, Application US/10235994  
; Publication No. US20030101002A1  
; GENERAL INFORMATION:  
; APPLICANT: Bartha, Gabor  
; APPLICANT: Walker, Michael  
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS  
; FILE REFERENCE: ICYTP012  
; CURRENT APPLICATION NUMBER: US/10/235,994  
; CURRENT FILING DATE: 2002-09-04  
; PRIOR APPLICATION NUMBER: US/10/003,608  
; PRIOR FILING DATE: 2001-11-01  
; PRIOR APPLICATION NUMBER: 60/245,081  
; PRIOR FILING DATE: 2000-11-01  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 25  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Human  
US-10-235-994-25

Query Match 100.0%; Score 235; DB 15; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 2.9e-69;  
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACACAGCAAAATTCCTCCAGCCCTCTGGTAGTTTATGCAAAATATTCGCCAAGAGCCTCC 60  
Db 1831 GACACAGCAAAATTCCTCCAGCCCTCTGGTAGTTTATGCAAAATATTCGCCAAGAGCCTCC 1890

QY 61 CCAATTCCTCAGGGCCAGTGTCAAGCCCTGATGCTACTTAAGGATCAGTGAATGGAATAACAGTTACC 120  
Db 1891 CCAATTCCTCAGGGCCAGTGTCAAGCCCTGATGCTACTTAAGGATCAGTGAATGGAATAACAGTTACC 1950

QY 121 TTGGAACACTGATTAATGAGCAGCGTCTGATGCTACTTAAGGATCAGCGTCTCTACTCA 180  
Db 1951 TTGGAACACTGATTAATGAGCAGCGTCTGATGCTACTTAAGGATCAGCGTCTCTACTCA 2010

QY 181 AGGTATTTTCCAACTTATCAGCAGCAATGCTAGATACAGTGTAAAGTGGGGCTC 235  
Db 2011 AGGTATTTTCCAACTTATCAGCAGCAATGCTAGATACAGTGTAAAGTGGGGCTC 2065

RESULT 15  
US-09-764-868-22  
; Sequence 22, Application US/09764868  
; Patent No. US20020168711A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PT232  
; CURRENT APPLICATION NUMBER: US/09/764,868  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 1510  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 22  
; LENGTH: 3267  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-764-868-22

Query Match 100.0%; Score 235; DB 9; Length 3267;  
Best Local Similarity 100.0%; Pred. No. 3e-69;  
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACACAGCAAAATTCCTCCAGCCCTCTGGTAGTTTATGCAAAATATTCGCCAAGAGCCTCC 60  
Db 1832 GACACAGCAAAATTCCTCCAGCCCTCTGGTAGTTTATGCAAAATATTCGCCAAGAGCCTCC 1891

QY 61 CCAATTCCTCAGGGCCAGTGTCAAGCCCTGATGCTACTTAAGGATCAGTGAATGGAATAACAGTTACC 120  
Db 1892 CCAATTCCTCAGGGCCAGTGTCAAGCCCTGATGCTACTTAAGGATCAGTGAATGGAATAACAGTTACC 1951

QY 121 TTGGAACACTGATTAATGAGCAGCGTCTGATGCTACTTAAGGATCAGCGTCTCTACTCA 180  
Db 1952 TTGGAACACTGATTAATGAGCAGCGTCTGATGCTACTTAAGGATCAGCGTCTCTACTCA 2011

QY 181 AGGTATTTTCCAACTTATCAGCAGCAATGCTAGATACAGTGTAAAGTGGGGCTC 235  
Db 2012 AGGTATTTTCCAACTTATCAGCAGCAATGCTAGATACAGTGTAAAGTGGGGCTC 2066

Search completed: April 24, 2004, 06:38:13  
Job time : 125.762 secs



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OM nucleic - nucleic search, using sw model

Run on: April 24, 2004, 00:33:00 ; Search time 21.6012 seconds  
(without alignments)  
6037.311 Million cell updates/sec

Title: US-09-049-696-12

Perfect score: 235

Sequence: 1 GACACGAGCAATGCCAG.....CAGTGTAAAGTCCGGCTC 235

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA.\*

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- 2: /cgn2\_6/prodata/2/ina/5B COMB.seq.\*
- 3: /cgn2\_6/prodata/2/ina/6A COMB.seq.\*
- 4: /cgn2\_6/prodata/2/ina/6B COMB.seq.\*
- 5: /cgn2\_6/prodata/2/ina/PCTUS COMB.seq.\*
- 6: /cgn2\_6/prodata/2/ina/backfileseq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	235	100.0	1512	4	US-09-016-434-850
2	235	100.0	2745	4	US-09-623-624-5
3	235	100.0	3007	4	US-09-193-562D-27
4	176.4	75.1	2931	4	US-09-623-624-1
5	127.8	54.4	1081	4	US-09-016-434-928
6	127.8	54.4	1399	4	US-09-049-698-17
7	127.8	54.4	3043	4	US-09-049-698-16
8	127.8	54.4	3181	4	US-09-049-698-18
9	113.2	48.2	3022	4	US-09-193-562D-33
10	107.4	45.7	546	4	US-09-643-597-129
11	107.4	45.7	546	4	US-09-480-884A-129
12	107.4	45.7	546	4	US-09-542-615A-129
13	107.4	45.7	546	4	US-09-606-421B-129
14	107.4	45.7	2773	4	US-09-221-107-129
15	107.4	45.7	2773	4	US-09-643-597-358
16	107.4	45.7	2784	4	US-09-643-597-168
17	107.4	45.7	2784	4	US-09-480-884A-168
18	107.4	45.7	2784	4	US-09-542-615A-168
19	107.4	45.7	2784	4	US-09-606-421B-168
20	107.4	45.7	2970	4	US-09-193-562D-31
21	107.4	45.7	3156	4	US-09-919-172-86
22	107.4	45.7	3190	4	US-09-623-624-3
23	107.4	45.7	3951	4	US-09-643-597-160
24	107.4	45.7	3951	4	US-09-480-884A-160
25	107.4	45.7	3951	4	US-09-542-615A-160
26	107.4	45.7	3951	4	US-09-606-421B-160
27	107.4	45.7	3951	4	US-09-221-107-160

28	107.4	45.7	8031	4	US-09-643-597-254	Sequence 254, App
29	107.4	45.7	8031	4	US-09-480-884A-254	Sequence 254, App
30	107.4	45.7	8031	4	US-09-542-615A-254	Sequence 254, App
31	107.4	45.7	8031	4	US-09-606-421B-254	Sequence 254, App
32	107	45.5	3418	4	US-09-193-562D-29	Sequence 29, Appli
33	105.6	44.9	241	4	US-09-049-698-7	Sequence 7, Appli
34	103.4	44.0	3317	4	US-09-193-562D-21	Sequence 1, Appli
35	101.4	43.1	576	3	US-09-385-982-23	Sequence 23, Appli
36	90.4	38.5	611	3	US-09-385-982-27	Sequence 27, Appli
37	65	27.7	878	1	US-08-469-667-8	Sequence 8, Appli
38	65	27.7	878	4	US-09-224-110-8	Sequence 8, Appli
39	65	27.7	878	5	PCT-US95-07289-8	Sequence 8, Appli
40	57.6	24.5	242	4	US-09-049-698-8	Sequence 8, Appli
41	47	20.0	421	4	US-09-621-976-2831	Sequence 2831, Ap
C 42	35.6	15.1	1830121	4	US-09-557-884-1	Sequence 1, Appli
C 43	35.6	15.1	1830121	4	US-09-643-990A-1	Sequence 1, Appli
44	31.4	13.4	531	2	US-08-809-267-9	Sequence 9, Appli
45	31.4	13.4	531	5	PCT-US95-13662A-9	Sequence 9, Appli

ALIGNMENTS

RESULT 1  
US-09-016-434-850  
; Sequence 850, Application US/09016434  
; Patent No. 6500938  
; GENERAL INFORMATION:  
; APPLICANT: Janice Au-Young  
; APPLICANT: Jeffrey J. Seilhamer  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION  
; NUMBER OF SEQUENCES: 1490  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/016,434  
; FILING DATE: HEREWITH  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Zeller, Karen J.  
; REGISTRATION NUMBER: 37,071  
; REFERENCE/DOCKET NUMBER: PA-0002 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (650) 855-0555  
; TELEFAX: (650) 845-4166  
; INFORMATION FOR SEQ ID NO: 850:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1512 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: COLNNOT01  
; CLONE: 608819  
; US-09-016-434-850

Query Match 100.0%; Score 235; DB 4; Length 1512;  
Best Local Similarity 100.0%; Pred. No. 2.9e-73;





COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/049,698  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/828,856  
FILING DATE: 31-MAR-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Becker, Cheryl L.  
REGISTRATION NUMBER: 35,441  
REFERENCE/DOCKET NUMBER: 6068.US.P1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 847/935-1729  
TELEFAX: 847/938-2623  
TELEX:  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1399 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-09-049-698-17

Query Match 54.4%; Score 127.8; DB 4; Length 1399;  
Best Local Similarity 71.5%; Pred. No. 2.7e-35;  
Matches 168; Conservative 0; Mismatches 67; Indels 0; Gaps 0;  
QY 1 GACACCAGCAAAATCCCGAGCCCTCTGGTAGTTTATGCAAAATATTCGCCAAGGAGCCTCC 60  
DB 49 GACGTAACAGATTTCGCCAGCCCAATGATGTTTACGAGAAATCTCAAGGATATGTA 108  
QY 61 CCAATTCTCAGGGCCAGTGTCAAGCCCTGATGTAATCATAGTGAATGGAATAACAGTTACC 120  
DB 109 CCTGTTCTTGGAGCAATGTGACTGCTTTCATTGAATCACAAGTGGACATACAGAAGTT 168  
QY 121 TTGGAACACTGTAATGAGCAGGTGCTGATGCTACTTAAGGATGACGGTCTTACTCA 180  
DB 169 TTGGAACATTTTGGATAATGGTCAGCGCTGATTTCTTCAAGAATGATGGAGTCTACTCC 228  
QY 181 AGGTATTTTCAACAATTTATCACACGAATGTTAGATACAGTGTAAAGTGGGGCTC 235  
DB 229 AGGTATTTTACAGCATATACAGAAATGCGAGATATAGCTTAAAGTTTCGGGCTC 283

RESULT 7  
US-09-049-698-16  
Sequence 16, Application US/09049698  
Patent No. 6368792  
GENERAL INFORMATION:  
APPLICANT: BILLING-MEDEL, PATRICIA A.  
APPLICANT: COHEN, MAURICE  
APPLICANT: COLPITTS, TRACEY L.  
APPLICANT: FRIEDMAN, PAULA N.  
APPLICANT: HAYDEN, MARK  
APPLICANT: KLASS, MICHAEL R.  
APPLICANT: ROBERTS-RAPP, LISA  
APPLICANT: RUSSELL, JOHN C.  
APPLICANT: STROUPE, STEPHEN D.  
TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
TRACT  
NUMBER OF SEQUENCES: 51  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Abbott Laboratories  
STREET: 100 Abbott Park Road  
CITY: Abbott Park  
STATE: IL  
COUNTRY: USA  
ZIP: 60064-3500  
COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/049,698  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/828,856  
FILING DATE: 31-MAR-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Becker, Cheryl L.  
REGISTRATION NUMBER: 35,441  
REFERENCE/DOCKET NUMBER: 6068.US.P1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 847/935-1729  
TELEFAX: 847/938-2623  
TELEX:  
INFORMATION FOR SEQ ID NO: 16:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 3043 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-09-049-698-16  
Query Match 54.4%; Score 127.8; DB 4; Length 3043;  
Best Local Similarity 71.5%; Pred. No. 4e-35;  
Matches 168; Conservative 0; Mismatches 67; Indels 0; Gaps 0;  
QY 1 GACACCAGCAAAATCCCGAGCCCTCTGGTAGTTTATGCAAAATATTCGCCAAGGAGCCTCC 60  
DB 1820 GACGTAACAGATTTCGCCAGCCCAATGATGTTTACGAGAAATCTCAAGGATATGTA 1879  
QY 61 CCAATTCTCAGGGCCAGTGTCAAGCCCTGATGTAATCATAGTGAATGGAATAACAGTTACC 120  
DB 1880 CCTGTTCTTGGAGCAATGTGACTGCTTTCATTGAATCACAAGTGGACATACAGAAGTT 1939  
QY 121 TTGGAACACTGTAATGAGCAGGTGCTGATGCTACTTAAGGATGACGGTCTTACTCA 180  
DB 1940 TTGGAACATTTTGGATAATGGTCAGCGCTGATTTCTTCAAGAATGATGGAGTCTACTCC 1999  
QY 181 AGGTATTTTCAACAATTTATCACACGAATGTTAGATACAGTGTAAAGTGGGGCTC 235  
DB 2000 AGGTATTTTACAGCATATACAGAAATGCGAGATATAGCTTAAAGTTTCGGGCTC 2054

RESULT 8  
US-09-049-698-18  
Sequence 18, Application US/09049698  
Patent No. 6368792  
GENERAL INFORMATION:  
APPLICANT: BILLING-MEDEL, PATRICIA A.  
APPLICANT: COHEN, MAURICE  
APPLICANT: COLPITTS, TRACEY L.  
APPLICANT: FRIEDMAN, PAULA N.  
APPLICANT: HAYDEN, MARK  
APPLICANT: KLASS, MICHAEL R.  
APPLICANT: ROBERTS-RAPP, LISA  
APPLICANT: RUSSELL, JOHN C.  
APPLICANT: STROUPE, STEPHEN D.  
TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
TRACT  
NUMBER OF SEQUENCES: 51  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Abbott Laboratories  
STREET: 100 Abbott Park Road  
CITY: Abbott Park  
STATE: IL  
COUNTRY: USA  
ZIP: 60064-3500



```
; APPLICANT: Fan, Liqun
; APPLICANT: Hosken, Nancy A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
; FILE REFERENCE: 210121.455C6
; CURRENT APPLICATION NUMBER: US/09/480,884A
; CURRENT FILING DATE: 2001-08-27
; NUMBER OF SEQ ID NOS: 330
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 129
; LENGTH: 546
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-480-884A-129

Query Match      45.7%; Score 107.4; DB 4; Length 546;
Best Local Similarity 66.8%; Pred. No. 2.8e-28;
Matches 153; Conservative 0; Mismatches 76; Indels 0; Gaps 0;

QY 1 GACACAGCAAAATCCCGAGCCCTCTGGTAGTTTATGCAAAATATTCGCCAAGGAGCCTCC 60
   |||||
Db 484 GACAGCTCCATTTCTCTCATCTGTGATGATTTATGCCAAATGTGAACAGGGATTTTAT 425

QY 61 CCAATTTCTCAGGCGCCAGTGTCAAGCCCTGATTGAATCAATGAAATGCAAAACAGTTACC 120
   |||||
Db 424 CCATTTCTTAATGCCACTGTCTGATGATTTATGCCAAATGTGAACAGGGATTTTAT 365

QY 121 TTGGAACACTGATAATGGAGCAGGTGCTGATGCTTACTTAAGGATGACGGTGTCTACTCA 180
   |||||
Db 364 CTGAGACTCCTTGTGATGAGCAGGTGCTGATGTTATAAAAAATGATGGAATTTACTCG 305

QY 181 AGTATTTCACAACTTATGACAGCAATGATGATGATGATGATGATGATGATGATGATGATG 229
   |||||
Db 304 AGGTATTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 256

; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.455C9
; CURRENT APPLICATION NUMBER: US/09/606,421B
; CURRENT FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 358
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 129
; LENGTH: 546
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-606-421B-129

Query Match      45.7%; Score 107.4; DB 4; Length 546;
Best Local Similarity 66.8%; Pred. No. 2.8e-28;
Matches 153; Conservative 0; Mismatches 76; Indels 0; Gaps 0;

QY 1 GACACCAGCAAAATCCCGAGCCCTCTGGTAGTTTATGCAAAATATTCGCCAAGGAGCCTCC 60
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Db 484 GACAGCTCCATTTCTCTCATCTGTGATGATTTATGCCAAATGTGAACAGGGATTTTAT 425

QY 61 CCAATTTCTCAGGCGCCAGTGTCAAGCCCTGATTGAATCAATGAAATGCAAAACAGTTACC 120
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Db 424 CCATTTCTTAATGCCACTGTCTGATGATTTATGCCAAATGTGAACAGGGATTTTAT 365

QY 121 TTGGAACACTGATAATGGAGCAGGTGCTGATGCTTACTTAAGGATGACGGTGTCTACTCA 180
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Db 364 CTGAGACTCCTTGTGATGAGCAGGTGCTGATGTTATAAAAAATGATGGAATTTACTCG 305

QY 181 AGTATTTCACAACTTATGACAGCAATGATGATGATGATGATGATGATGATGATGATGATG 229
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Db 304 AGGTATTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 256

; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy A.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
; FILE REFERENCE: 210121.455C8
; CURRENT APPLICATION NUMBER: US/09/542,615A
; CURRENT FILING DATE: 2000-04-14
; NUMBER OF SEQ ID NOS: 350
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 129
; LENGTH: 546
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-542-615A-129

Query Match      45.7%; Score 107.4; DB 4; Length 546;
Best Local Similarity 66.8%; Pred. No. 2.8e-28;
Matches 153; Conservative 0; Mismatches 76; Indels 0; Gaps 0;

QY 1 GACACCAGCAAAATCCCGAGCCCTCTGGTAGTTTATGCAAAATATTCGCCAAGGAGCCTCC 60
   |||||
Db 484 GACAGCTCCATTTCTCTCATCTGTGATGATTTATGCCAAATGTGAACAGGGATTTTAT 425

QY 61 CCAATTTCTCAGGCGCCAGTGTCAAGCCCTGATTGAATCAATGAAATGCAAAACAGTTACC 120
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Db 424 CCATTTCTTAATGCCACTGTCTGATGATTTATGCCAAATGTGAACAGGGATTTTAT 365
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QY 121 TTGGAACACTGATAATGGAGCAGGTGCTGATGCTTACTTAAGGATGACGGTGTCTACTCA 180
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Db 364 CTGAGACTCCTTGTGATGAGCAGGTGCTGATGTTATAAAAAATGATGGAATTTACTCG 305

QY 181 AGTATTTCACAACTTATGACAGCAATGATGATGATGATGATGATGATGATGATGATGATG 229
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Db 304 AGGTATTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 256
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RESULT 13
US-09-606-421B-129/c
; Sequence 129, Application US/09606421B
; Patent No. 6531315
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.455C9
; CURRENT APPLICATION NUMBER: US/09/606,421B
; CURRENT FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 358
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 129
; LENGTH: 546
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-606-421B-129
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Query Match      45.7%; Score 107.4; DB 4; Length 546;
Best Local Similarity 66.8%; Pred. No. 2.8e-28;
Matches 153; Conservative 0; Mismatches 76; Indels 0; Gaps 0;

QY 1 GACACCAGCAAAATCCCGAGCCCTCTGGTAGTTTATGCAAAATATTCGCCAAGGAGCCTCC 60
   |||||
Db 484 GACAGCTCCATTTCTCTCATCTGTGATGATTTATGCCAAATGTGAACAGGGATTTTAT 425

QY 61 CCAATTTCTCAGGCGCCAGTGTCAAGCCCTGATTGAATCAATGAAATGCAAAACAGTTACC 120
   |||||
Db 424 CCATTTCTTAATGCCACTGTCTGATGATTTATGCCAAATGTGAACAGGGATTTTAT 365

QY 121 TTGGAACACTGATAATGGAGCAGGTGCTGATGCTTACTTAAGGATGACGGTGTCTACTCA 180
   |||||
Db 364 CTGAGACTCCTTGTGATGAGCAGGTGCTGATGTTATAAAAAATGATGGAATTTACTCG 305

QY 181 AGTATTTCACAACTTATGACAGCAATGATGATGATGATGATGATGATGATGATGATGATG 229
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Db 304 AGGTATTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 256
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RESULT 14
US-09-221-107-129/c
; Sequence 129, Application US/09221107
; Patent No. 6660838
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY OF LUNG CANCER
; FILE REFERENCE: 210121.455C2
; CURRENT APPLICATION NUMBER: US/09/221,107
; CURRENT FILING DATE: 1998-12-22
; NUMBER OF SEQ ID NOS: 161
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 129
; LENGTH: 546
; TYPE: DNA
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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - protein search, using frame\_plus\_n2p model

Run on: April 21, 2004, 16:13:49 ; Search time 34.5229 Seconds  
(without alignments)  
3840.718 Million cell updates/sec

Title: US-09-049-696-3

Perfect score: 442

Sequence: 1 AAAATGCTGATGTTCTGTTT.....GAAATCTTACTTATCAATG 240

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Ygapop 10.0, Ygapext 0.5  
Fgapop 6.0, Fgapext 7.0  
Delop 6.0, Delext 7.0

Searched: 1133595 seqs, 276475211 residues

Total number of hits satisfying chosen parameters: 2267190

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Database : Published Applications AA:

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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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1	442	100.0	869	14	US-10-106-698-6388	Sequence 6388, Ap
2	442	100.0	914	9	US-09-823-356-8	Sequence 8, Appli
3	442	100.0	914	9	US-09-981-353-192	Sequence 192, App
4	442	100.0	914	11	US-09-833-245-2054	Sequence 2054, Ap
5	442	100.0	914	14	US-10-270-595-6	Sequence 6, Appli
6	442	100.0	914	14	US-10-235-994-26	Sequence 26, Appl
7	442	100.0	914	14	US-10-060-255-42	Sequence 42, Appl
8	442	100.0	925	9	US-09-764-868-635	Sequence 635, App
9	442	100.0	925	14	US-10-106-698-6248	Sequence 1066, Ap
10	439	99.3	914	9	US-09-922-217-1066	Sequence 1066, Ap
11	439	99.3	914	9	US-09-833-263-1066	Sequence 1066, Ap
12	439	99.3	914	13	US-10-025-380-1066	Sequence 28, Appl
13	439	99.3	914	14	US-10-055-412B-28	Sequence 13, App
14	439	99.3	914	15	US-10-369-214-134	Sequence 2, Appli
15	356	80.5	913	14	US-10-270-595-2	Sequence 132, App
16	356	80.5	913	15	US-10-369-214-132	Sequence 54, Appl
17	306	69.2	917	9	US-09-981-353-54	Sequence 16, Appl
18	306	69.2	917	14	US-10-235-994-16	Sequence 32, Appl
19	306	69.2	917	14	US-10-345-680-32	Sequence 34, App
20	306	69.2	917	15	US-10-369-214-134	Sequence 34, App
21	306	69.2	917	15	US-10-087-080-34	Sequence 379, App
22	306	69.2	919	9	US-09-989-723-379	Sequence 379, App
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26	306	69.2	919	9	US-09-989-731-379	Sequence 379, App
27	306	69.2	919	9	US-09-989-732-379	Sequence 379, App
28	306	69.2	919	9	US-09-991-073-379	Sequence 379, App
29	306	69.2	919	9	US-09-990-443-379	Sequence 379, App
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39	306	69.2	919	9	US-09-989-730-379	Sequence 379, App
40	306	69.2	919	9	US-09-990-436-379	Sequence 379, App
41	306	69.2	919	9	US-09-993-687-379	Sequence 379, App
42	306	69.2	919	10	US-09-989-734-379	Sequence 379, App
43	306	69.2	919	10	US-09-997-653-379	Sequence 379, App
44	306	69.2	919	10	US-09-993-667-379	Sequence 379, App
45	306	69.2	919	10	US-09-997-428-379	Sequence 379, App

ALIGNMENTS

RESULT 1  
US-10-106-698-6388  
; Sequence 6388, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:

; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 6388  
; LENGTH: 869  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: MISC\_FEATURE

; LOCATION: (14)  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-10-106-698-6388

Alignment Scores:  
Pred. No.: 1,336-46 Length: 869  
Score: 442.00 Matches: 79  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-3 (1-240) x US-10-106-698-6388 (1-869)

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QY 63 CAGATGGGCAACTGTGGAGAGAGGTTGAAGGATCCACCTCCTCTGATTTCATTGCA 122  
DB 76 GlnMetGlyAsnCysGlyGluValArgGlyGluHisLeuThrProAspPheIleAla 95  
QY 123 GGAAGAAAGTACCTGCAATATGACCAAGGATCCAGGATCCCTGCTGATTTCATTGCA 182  
DB 96 GlyLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis 115  
QY 183 CTACGATGGGAGTATTTCACGAGTACATAATGATGAGAAATTCCTATTATCCCAAT 239  
DB 116 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsn 134

## RESULT 2

US-09-823-356-8

; Sequence 8, Application US/09823356  
; Patent No. US20010025098A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Kaser, Matthew R.  
; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Purvi

; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS

; FILE REFERENCE: PF-0489-1 CON

; CURRENT APPLICATION NUMBER: US/09/823,356

; CURRENT FILING DATE: 2001-03-30

; PRIOR APPLICATION NUMBER: 09/039,307

; PRIOR FILING DATE: 1998 March 13

; NUMBER OF SEQ ID NOS: 34

; SOFTWARE: PERL Program

; SEQ ID NO 8

; LENGTH: 914

; TYPE: PRT

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: misc feature

; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775

## US-09-823-356-8

Alignment Scores:  
Pred. No.: 1,346-46 Length: 914  
Score: 442.00 Matches: 79  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-3 (1-240) x US-09-823-356-8 (1-914)

QY 3 AATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCTTACACTGAG 62

DB 101 AsnAlaAspValLeuValAlaGluSerThrProGlyAsnAspGluProTyrThrGlu 120  
QY 63 CAGATGGGCAACTGTGGAGAGAGGTTGAAGGATCCACCTCCTGATTTCATTGCA 122  
DB 121 GlnMetGlyAsnCysGlyGluValArgGlyGluHisLeuThrProAspPheIleAla 140  
QY 123 GGAAGAAAGTACCTGCAATATGACCAAGGATCCAGGATCCCTGCTGATTTCATTGCA 182  
DB 141 GlyLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis 160  
QY 183 CTACGATGGGAGTATTTCACGAGTACATAATGATGAGAAATTCCTATTATCCCAAT 239  
DB 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsn 179

## RESULT 3

US-09-981-353-192

; Sequence 192, Application US/09981353

; Patent No. US20020160382A1

; GENERAL INFORMATION:

; APPLICANT: Lasek, Amy W.

; APPLICANT: Jones, David A.

; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER

; FILE REFERENCE: PA-0038 US

; CURRENT APPLICATION NUMBER: US/09/981,353

; CURRENT FILING DATE: 2001-10-11

; NUMBER OF SEQ ID NOS: 194

; SOFTWARE: PERL Program

; SEQ ID NO 192

; LENGTH: 914

; TYPE: PRT

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: misc feature

; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CD1

US-09-981-353-192

## Alignment Scores:

Pred. No.: 1,346-46 Length: 914  
Score: 442.00 Matches: 79  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-3 (1-240) x US-09-981-353-192 (1-914)

QY 3 AATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCTTACACTGAG 62

DB 101 AsnAlaAspValLeuValAlaGluSerThrProGlyAsnAspGluProTyrThrGlu 120

QY 63 CAGATGGGCAACTGTGGAGAGAGGTTGAAGGATCCACCTCCTGATTTCATTGCA 122

DB 121 GlnMetGlyAsnCysGlyGluValArgGlyGluHisLeuThrProAspPheIleAla 140

QY 123 GGAAGAAAGTACCTGCAATATGACCAAGGATCCAGGATCCCTGCTGATTTCATTGCA 182

DB 141 GlyLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis 160

QY 183 CTACGATGGGAGTATTTCACGAGTACATAATGATGAGAAATTCCTATTATCCCAAT 239

DB 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsn 179

## RESULT 4

US-09-833-245-2054

; Sequence 2054, Application US/09833245

; Publication No. US20040010134A1

; GENERAL INFORMATION:

; APPLICANT: Human Genome Sciences, Inc.

; TITLE OF INVENTION: Albumin Fusion Proteins

; FILE REFERENCE: PFS46PCT

; CURRENT APPLICATION NUMBER: US/09/833,245

; CURRENT FILING DATE: 2001-04-12

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; PRIOR APPLICATION NUMBER: 60/229, 358
; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256, 931
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/199, 384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 2267
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2054
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-833-245-2054

Alignment Scores:
Pred. No.: 1,34e-46 Length: 914
Score: 442.00 Matches: 79
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 11 Gaps: 0

US-09-049-696-3 (1-240) x US-09-833-245-2054 (1-914)
QY 3 AATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCTACACTGAG 62
Db 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120
QY 63 CAGATGGGCAACTGTGGAGAGGCTGAAAGGATCCACTCCTCATCTCTGATTTCAATGCA 122
Db 121 GlnMetGlyAsnCysGlyGluArgGileHisLeuThrProAspPheIleAla 140
QY 123 GGAAGAAAGTTAGCTCAATATGACCAAGGTAGGGCATTTGTCCATGAGTGGGCTCAT 182
Db 141 GlyLysLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis 160
QY 183 CTACGATGGGAGTATTTCAGCAGTACAATAATGATGAGAAATTCATTATCCAAT 239
Db 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsn 179

RESULT 5
US-10-270-595-6
; Sequence 6, Application US/10270595
; Publication No. US20030078409A1
; GENERAL INFORMATION:
; APPLICANT: Magainin Pharmaceuticals, Inc.
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/10/270,595
; CURRENT FILING DATE: 2002-10-16
; PRIOR APPLICATION NUMBER: US/09/623,624
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
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; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-270-595-6

Alignment Scores:
Pred. No.: 1,34e-46 Length: 914
Score: 442.00 Matches: 79
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 14 Gaps: 0

US-09-049-696-3 (1-240) x US-10-270-595-6 (1-914)
QY 3 AATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCTACACTGAG 62
Db 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120
QY 63 CAGATGGGCAACTGTGGAGAGGCTGAAAGGATCCACTCCTCATCTCTGATTTCAATGCA 122
Db 121 GlnMetGlyAsnCysGlyGluArgGileHisLeuThrProAspPheIleAla 140
QY 123 GGAAGAAAGTTAGCTCAATATGACCAAGGTAGGGCATTTGTCCATGAGTGGGCTCAT 182
Db 141 GlyLysLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis 160
QY 183 CTACGATGGGAGTATTTCAGCAGTACAATAATGATGAGAAATTCATTATCCAAT 239
Db 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsn 179

RESULT 6
US-10-235-994-26
; Sequence 26, Application US/10235994
; Publication No. US20030101002A1
; GENERAL INFORMATION:
; APPLICANT: Bartha, Gabor
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS
; FILE REFERENCE: ICYTP012
; CURRENT APPLICATION NUMBER: US/10/235,994
; CURRENT FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: US/10/003,608
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,081
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Human
US-10-235-994-26

Alignment Scores:
Pred. No.: 1,34e-46 Length: 914
Score: 442.00 Matches: 79
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 14 Gaps: 0

US-09-049-696-3 (1-240) x US-10-235-994-26 (1-914)
QY 3 AATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCTACACTGAG 62
Db 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120
QY 63 CAGATGGGCAACTGTGGAGAGGCTGAAAGGATCCACTCCTCATCTCTGATTTCAATGCA 122
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Db 121 GlnMetGlyAsnCysGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla 140  
QY 123 GGAAGAAAGCTAGCTGAATATGACACAAAGGTAGGCAATTTGTCCATGAGTGGCTCAT 182  
Db 141 GlyLysLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis 160  
QY 183 CTACGATGGGAGTATTTCACGAGTACAATAATGATGAGAAATTCCTATTATCCCAAT 239  
Db 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsn 179

RESULT 7

US-10-060-255-42  
; Sequence 42, Application US/10060255  
; Publication No. US20030113840A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 25 Human secreted proteins  
; FILE REFERENCE: P2042P1  
; CURRENT APPLICATION NUMBER: US/10/060,255  
; CURRENT FILING DATE: 2002-02-01  
; PRIOR APPLICATION NUMBER: 09/781,417  
; PRIOR FILING DATE: 2001-02-13  
; PRIOR APPLICATION NUMBER: PCT/US00/22325  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: 60/149,182  
; PRIOR FILING DATE: 1999-08-17  
; NUMBER OF SEQ ID NOS: 86  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 42  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-060-255-42

Alignment Scores:  
Pred. No.: 1,34e-46 Length: 914  
Score: 442.00 Matches: 79  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-3 (1-240) x US-10-060-255-42 (1-914)

QY 3 AATGCTGATGTTCTGGTTCCTAGCTACTCTCCAGGTAATGATGAACCCCTACACTGAG 62  
Db 101 AsnAlaAspValLeuValAlaGluSerThrProGlyAsnAspGluProTyrThrGlu 120  
QY 63 CAGATGGGCAACTGTGGAGAGAAGGTGAAGATCCACCTCACTCCTCATTTTCATTGCA 122  
Db 121 GlnMetGlyAsnCysGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla 140  
QY 123 GGAAGAAAGCTAGCTGAATATGACACAAAGGTAGGCAATTTGTCCATGAGTGGCTCAT 182  
Db 141 GlyLysLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis 160  
QY 183 CTACGATGGGAGTATTTCACGAGTACAATAATGATGAGAAATTCCTATTATCCCAAT 239  
Db 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsn 179

RESULT 8

US-09-764-868-635  
; Sequence 635, Application US/09764868  
; Patent No. US20020168711A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PT232  
; CURRENT APPLICATION NUMBER: US/09/764,868  
; CURRENT FILING DATE: 2001-01-17  
; PRIOR APPLICATION data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 1510  
; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 635  
; LENGTH: 925  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-764-868-635

Alignment Scores:  
Pred. No.: 1,35e-46 Length: 925  
Score: 442.00 Matches: 79  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-3 (1-240) x US-09-764-868-635 (1-925)

QY 3 AATGCTGATGTTCTGGTTCCTAGCTACTCTCCAGGTAATGATGAACCCCTACACTGAG 62  
Db 112 AsnAlaAspValLeuValAlaGluSerThrProGlyAsnAspGluProTyrThrGlu 131  
QY 63 CAGATGGGCAACTGTGGAGAGAAGGTGAAGATCCACCTCACTCCTCATTTTCATTGCA 122  
Db 132 GlnMetGlyAsnCysGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla 151  
QY 123 GGAAGAAAGCTAGCTGAATATGACACAAAGGTAGGCAATTTGTCCATGAGTGGCTCAT 182  
Db 152 GlyLysLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis 171  
QY 183 CTACGATGGGAGTATTTCACGAGTACAATAATGATGAGAAATTCCTATTATCCCAAT 239  
Db 172 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsn 190

RESULT 9

US-10-106-698-6248  
; Sequence 6248, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 6248  
; LENGTH: 925  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-106-698-6248

Alignment Scores:  
Pred. No.: 1,35e-46 Length: 925  
Score: 442.00 Matches: 79  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-3 (1-240) x US-10-106-698-6248 (1-925)

QY 3 AATGCTGATGTTCTGGTTCCTAGCTACTCTCCAGGTAATGATGAACCCCTACACTGAG 62  
Db 112 AsnAlaAspValLeuValAlaGluSerThrProGlyAsnAspGluProTyrThrGlu 131  
QY 63 CAGATGGGCAACTGTGGAGAGAAGGTGAAGATCCACCTCACTCCTCATTTTCATTGCA 122  
Db 132 GlnMetGlyAsnCysGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla 151





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; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 913
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-270-595-2

Alignment Scores:
Pred. No.:          9,486-36          Length:          913
Score:             356.00          Matches:          62
Percent Similarity: 88.46%          Conservative:    7
Best Local Similarity: 79.49%          Mismatches:     9
Query Match:       80.54%          Indels:         0
DB:                14              Gaps:          0

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QY   3  AATGCTGATGTTCTGTTCTGCTGAGTCTACTCTCCAGGTAATGATGAACCTACACTGAG 62:
Db   101 AenAlaAspValLeuValSerThrThrSerProLeuGlyAsnAspGluProTyrThrGlu 120
QY   63  CAGATGGGCAACTGTGGAGAGAGGGTGAAGAGTCCACCTCACTCTGATTTCATTGCA 122
Db   121 HisIleGlyAlaCysGlyGluLysGlyIleArgIleHisLeuThrProAspPheLeuAla 140
QY   123 GGAATAAGTTAGCTGAATATGACCAACACAGTAGGCGCATTTGTCCATGAGTGGGCTCAT 182
Db   141 GlyLysLysLeuThrGlnTyrGlyProGlnAspArgThrPheValHisGluTrpAlaHis 160
QY   183 CTACGATGGGAGTATTTGACGAGTACATATATGATGAGAAATTTCTACTATCC 236
Db   161 PheArgTrpGlyValPheAsnGluTyrAsnAsnAspGluLysPheTyrLeuSer 178
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Job time : 36.5529 secs

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: April 24, 2004, 00:33:00 ; Search time 22.0609 Seconds  
(without alignments)  
6037.311 Million cell updates/sec

Title: US-09-049-696-3

Perfect score: 240

Sequence: 1 AAAATGCGATGTTCTGTTT.....GAAATCTACTTATCCAAATG 240

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Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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2: /cgn2\_6/ptodata/2/ina/5B COMB.seq:\*

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#### SUMMARIES

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2	238.4	99.3	3007	4	US-09-193-562D-27
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4	129.2	53.8	3043	4	US-09-049-698-16
5	129.2	53.8	3181	4	US-09-049-698-18
6	109.8	45.7	401	3	US-09-221-298-34
7	109.8	45.7	401	4	US-09-401-064-34
8	99.6	41.5	3418	4	US-09-193-562D-29
9	94.8	39.5	3317	4	US-09-193-562D-1
10	93	38.8	3022	4	US-09-193-562D-33
11	77.6	32.3	2773	4	US-09-643-597-358
12	77.6	32.3	2784	4	US-09-643-597-168
13	77.6	32.3	2784	4	US-09-480-884A-168
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21	77.6	32.3	3362	4	US-09-542-615A-167
22	77.6	32.3	3362	4	US-09-606-421B-167
23	77.6	32.3	3951	4	US-09-643-597-160
24	77.6	32.3	3951	4	US-09-480-884A-160
25	77.6	32.3	3951	4	US-09-542-615A-160
26	77.6	32.3	3951	4	US-09-606-421B-160
27	77.6	32.3	3951	4	US-09-221-107-160

28	77.6	32.3	8031	4	US-09-643-597-254	Sequence 254, App
29	77.6	32.3	8031	4	US-09-480-884A-254	Sequence 254, App
30	77.6	32.3	8031	4	US-09-542-615A-254	Sequence 254, App
31	77.6	32.3	8031	4	US-09-606-421B-254	Sequence 254, App
32	36	15.0	1664976	4	US-08-916-421B-1	Sequence 1, Appli
33	34	14.2	5319	1	US-08-169-927-1	Sequence 2, Appli
34	32.4	13.5	1423	3	US-08-916-576B-3	Sequence 3, Appli
35	31.6	13.2	482	4	US-09-621-976-99	Sequence 99, Appl
36	31.2	13.0	148567	4	US-09-801-876B-3	Sequence 3, Appli
37	31.2	13.0	148567	4	US-10-254-869-3	Sequence 3, Appli
38	30.6	12.8	4403765	3	US-09-103-840A-2	Sequence 2, Appli
39	30.6	12.8	4411529	3	US-09-103-840A-1	Sequence 1, Appli
40	30.4	12.7	1371	4	US-09-328-352-2820	Sequence 2820, Ap
C 41	30.2	12.6	1001	4	US-09-671-317-11	Sequence 11, Appl
C 42	30.2	12.6	1001	4	US-09-671-317-11	Sequence 437, App
C 43	30.2	12.6	1664976	4	US-08-916-421B-1	Sequence 1, Appli
44	30	12.5	302	3	US-08-916-576B-19	Sequence 19, Appl
45	30	12.5	396	2	US-08-465-380-12	Sequence 12, Appl

#### ALIGNMENTS

RESULT 1  
US-09-623-624-5  
; Sequence 5, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 2745  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1) .. (2742)  
US-09-623-624-5

Query Match 100.0%; Score 240; DB 4; Length 2745;  
Best Local Similarity 100.0%; Pred. No. 2.1e-73;  
Matches 240; Conservative 0; Mismatches 0; Indels 0; Gaps 0;



ADDRESSEE: Abbott Laboratories  
STREET: 100 Abbott Park Road  
CITY: Abbott Park  
STATE: IL  
COUNTRY: USA  
ZIP: 60064-3500  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/049,698  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/828,856  
FILING DATE: 31-MAR-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Becker, Cheryl L.  
REGISTRATION NUMBER: 35,441  
REFERENCE/DOCKET NUMBER: 6068.US.P1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 847/935-1729  
TELEFAX: 847/938-2623  
TELEX:  
INFORMATION FOR SEQ ID NO: 16:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 3043 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-09-049-698-16

Query Match 53.8%; Score 129.2; DB 4; Length 3043;  
Best Local Similarity 72.6%; Pred. No. 7.4e-35;  
Matches 167; Conservative 0; Mismatches 63; Indels 0; Gaps 0;

QY 1 AAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTG 60  
DB 309 AACATGCTGATGTTATAGTTGACACCTTACACTCCAGGTAAGATGAACCATACCA 368  
QY 61 AGCAGATGGGCAACTGTGGAGAGAGGGTGAAGGATCCACTCTCTGATTTCAATG 120  
DB 369 AGCAGTTACAGAAATGTGGAGAGAAAGGCGAATACATTCACCTCCACCTGACCTTCTAC 428  
QY 121 CAGGAAAAAAGTTAGCTGAATATGGACCAAGGTAGGCGATTTGCCATGAGTGGGCTC 180  
DB 429 TTGAAAAAAAACAAATGAATATGGACCAAGGTAGGCGAATCTGTTTGTCCATGAGTGGGCTC 488  
QY 181 ATCTACGATGGGAGTATTGACGAGTACAATAATGATGAGAAATTTCTAC 230  
DB 489 ACCTCGGTGGGAGTGTGATGAGTACATGAGTACAGTACGCTTTCTAC 538

RESULT 5  
US-09-049-698-18  
Sequence 18, Application US/09049698  
Patent No. 6368792  
GENERAL INFORMATION:  
APPLICANT: BILLING-MEDEL, PATRICIA A.  
APPLICANT: COHEN, MAURICE  
APPLICANT: COLPITTS, TRACEY L.  
APPLICANT: FRIEDMAN, PAULA N.  
APPLICANT: HAYDEN, MARK  
APPLICANT: KLASS, MICHAEL R.  
APPLICANT: ROBERTS-RAPP, LISA  
APPLICANT: RUSSELL, JOHN C.  
APPLICANT: STROUPE, STEPHEN D.  
TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
NUMBER OF SEQUENCES: 51

CORRESPONDENCE ADDRESS:  
ADDRESSEE: Abbott Laboratories  
STREET: 100 Abbott Park Road  
CITY: Abbott Park  
STATE: IL  
COUNTRY: USA  
ZIP: 60064-3500  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/049,698  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/828,856  
FILING DATE: 31-MAR-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Becker, Cheryl L.  
REGISTRATION NUMBER: 35,441  
REFERENCE/DOCKET NUMBER: 6068.US.P1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 847/935-1729  
TELEFAX: 847/938-2623  
TELEX:  
INFORMATION FOR SEQ ID NO: 18:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 3181 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-09-049-698-18

Query Match 53.8%; Score 129.2; DB 4; Length 3181;  
Best Local Similarity 72.6%; Pred. No. 7.5e-35;  
Matches 167; Conservative 0; Mismatches 63; Indels 0; Gaps 0;

QY 1 AAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTG 60  
DB 320 AACATGCTGATGTTATAGTTGACACCTTACACTCCAGGTAAGATGAACCATACCA 379  
QY 61 AGCAGATGGGCAACTGTGGAGAGAGGGTGAAGGATCCACTCTCTGATTTCAATG 120  
DB 380 AGCAGTTACAGAAATGTGGAGAGAAAGGCGAATACATTCACCTCCACCTGACCTTCTAC 439  
QY 121 CAGGAAAAAAGTTAGCTGAATATGGACCAAGGTAGGCGATTTGCCATGAGTGGGCTC 180  
DB 440 TTGAAAAAAAACAAATGAATATGGACCAAGGTAGGCGAATCTGTTTGTCCATGAGTGGGCTC 499  
QY 181 ATCTACGATGGGAGTATTGACGAGTACAATAATGATGAGAAATTTCTAC 230  
DB 500 ACCTCGGTGGGAGTGTGATGAGTACATGAGTACATGAGTACGCTTTCTAC 549

RESULT 6  
US-09-221-298-34  
Sequence 34, Application US/09221298  
Patent No. 6284241  
GENERAL INFORMATION:  
APPLICANT: XU, JIANGCHUN  
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY AND DIAGNOSIS  
TITLE OF INVENTION: OF COLON CANCER  
FILE REFERENCE: 210121.471  
CURRENT APPLICATION NUMBER: US/09/221,298  
CURRENT FILING DATE: 1998-12-23  
NUMBER OF SEQ ID NOS: 112  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 34  
LENGTH: 401  
TYPE: DNA  
ORGANISM: Human

US-09-221-298-34

Query Match 45.7%; Score 109.8; DB 3; Length 401;  
Best Local Similarity 92.9%; Pred. No. 1.5e-28;  
Matches 170; Conservative 0; Mismatches 7; Indels 6; Gaps 5;

QY 1 AAAATGCTGATGTTCTGGTTGC-TGAGTCTACTCTCCAGGTAATGATGAACCCCTACACT 59  
|||  
DB 215 AAAATGCTGATGTTCTGGTTGCTTGGTCTACTCTCCAGGTAATGATGAACCCCTACACT 274  
|||

QY 60 GAGCAGAT-GGGCACTGTGGAGAGGG--TGAAGGATCCACTCTACTCTGATTTC 116  
|||  
DB 275 GAGCAGATGGGCAACTGTGGAGAGAGGGGTGAAGGATCCCACTCTACTCTGATTTC 334  
|||

QY 117 ATTGCAGGAAAAAGTTAGC-TGAATATGGACCAAGGT-AGGCAATTTGCCATGAGT 174  
|||  
DB 335 ATTGCAGGAAAAAGTTAGCTTGAATATGGACCAAGGTAAGGGCAATTTGCCATGAT 394  
|||

QY 175 GGG 177  
|||  
DB 395 GGG 397

RESULT 7

US-09-401-064-34  
; Sequence 34, Application US/09401064  
; Patent No. 6623923

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeline Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongtong

; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND

; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE

; FILE REFERENCE: 210121.471C2

; CURRENT APPLICATION NUMBER: US/09/401,064

; CURRENT FILING DATE: 1999-09-22

; NUMBER OF SEQ ID NOS: 371

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 34

; LENGTH: 401

; TYPE: DNA

; ORGANISM: Homo sapien

US-09-401-064-34

Query Match 45.7%; Score 109.8; DB 4; Length 401;  
Best Local Similarity 92.9%; Pred. No. 1.5e-28;  
Matches 170; Conservative 0; Mismatches 7; Indels 6; Gaps 5;

QY 1 AAAATGCTGATGTTCTGGTTGC-TGAGTCTACTCTCCAGGTAATGATGAACCCCTACACT 59  
|||  
DB 215 AAAATGCTGATGTTCTGGTTGCTTGGTCTACTCTCCAGGTAATGATGAACCCCTACACT 274  
|||

QY 60 GAGCAGAT-GGGCACTGTGGAGAGGG--TGAAGGATCCACTCTACTCTGATTTC 116  
|||  
DB 275 GAGCAGATGGGCAACTGTGGAGAGAGGGGTGAAGGATCCCACTCTACTCTGATTTC 334  
|||

QY 117 ATTGCAGGAAAAAGTTAGC-TGAATATGGACCAAGGT-AGGCAATTTGCCATGAGT 174  
|||  
DB 335 ATTGCAGGAAAAAGTTAGCTTGAATATGGACCAAGGTAAGGGCAATTTGCCATGAT 394  
|||

QY 175 GGG 177  
|||  
DB 395 GGG 397

RESULT 8

US-09-193-562D-29

; Sequence 29, Application US/09193562D

; Patent No. 6309857

; GENERAL INFORMATION:

; APPLICANT: Pauli, Benedicht U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules

; FILE REFERENCE: 18617.0052

; CURRENT APPLICATION NUMBER: US/09/193,562D

; CURRENT FILING DATE: 1998-11-17

; PRIOR APPLICATION NUMBER: US/60/065,922

; PRIOR FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 29

; LENGTH: 3418

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-193-562D-29

Query Match 41.5%; Score 99.6; DB 4; Length 3418;  
Best Local Similarity 64.1%; Pred. No. 1.5e-24;  
Matches 150; Conservative 0; Mismatches 84; Indels 0; Gaps 0;

QY 4 ATGCTGATGTTCTGGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTGAGC 63  
|||  
DB 317 AGGCAGATGTCATAGTTGCTGATCTTTACCTGAAATACGGAGATGATCCCTATACACTTC 376  
|||

QY 64 AGATGGCAACTGTGGAGAGAGGGTGAAGGATCCACTCTCTGATTTTCATTGCAG 123  
|||  
DB 377 AATATGGACAATGTGGAGATAAAGGACATATATACATTTTACTCCAACTTCTTGTGA 436  
|||

QY 124 GAAAAAGTTAGCTGAATATGGACCAAGGTAGGCAATTTGTCCATGAGTGGGCTCATC 183  
|||  
DB 437 CTAATAACTTGGCTACCTATGGCCCTCGAGGTAAAGTATTTGTCCATGGGTGGGCCATC 496  
|||

QY 184 TACGATGGGAGTATTTGACGAGTACATAATGATGAGAAATTTCTACTATCCA 237  
|||  
DB 497 TCCGGTGGGAGTATTTGATGAGTAAATGTGGACCACTTCATATTTCCA 550  
|||

RESULT 9

US-09-193-562D-1

; Sequence 1, Application US/09193562D

; Patent No. 6309857

; GENERAL INFORMATION:

; APPLICANT: Pauli, Benedicht U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules

; FILE REFERENCE: 18617.0052

; CURRENT APPLICATION NUMBER: US/09/193,562D

; CURRENT FILING DATE: 1998-11-17

; PRIOR APPLICATION NUMBER: US/60/065,922

; PRIOR FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 1

; LENGTH: 3317

; TYPE: DNA

; ORGANISM: Unknown

; FEATURE:

; OTHER INFORMATION: sequence encoding Lu-ECAM-1 and Lu-ECAM-1 associated

; OTHER INFORMATION: protein from bovine endothelial cells

US-09-193-562D-1

Query Match 39.5%; Score 94.8; DB 4; Length 3317;  
Best Local Similarity 62.8%; Pred. No. 7e-23;  
Matches 147; Conservative 0; Mismatches 87; Indels 0; Gaps 0;

QY 4 ATGCTGATGTTCTGGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTGAGC 63  
|||  
DB 361 AGGCAGATGTCATAGTTGCTTAATCCCTATCTAAAAATATGGAGATGATCCCTATACACTTC 420  
|||

QY 64 AGATGGCAACTGTGGAGAGAGGGTGAAGGATCCACTCTCTGATTTTCATTGCAG 123  
|||  
DB 421 AATATGGAAAGGTGTGGAGAAAAGGAAATATATACATTTTACTCCAACTTCTTGTGA 480  
|||

QY 124 GAAAAAGTTAGCTGAATATGGACCAAGGTAGGGCATTTGTCCATGAGTGGGCTCATC 183  
|||

Db 481 CTAATAATTTCCACATCTATGGTCCCGAGGAGAGTATTTGTCATGATGGGCCCATC 540  
Qy 184 TACGATGGGAGTATTTGACGAGTCAATAATGATGAGAAATTTCTACTTATCCA 237  
Db 541 TCCGCTGGGGAATATTTGATGATGATATATGTGGACGACCAATCTATATTCCA 594

## RESULT 10

US-09-193-562D-33  
; Sequence 33, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 33  
; LENGTH: 3022  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-09-193-562D-33

Query Match 38.8%; Score 93; DB 4; Length 3022;  
Best Local Similarity 62.0%; Pred. No. 2.8e-22;  
Matches 147; Conservative 0; Mismatches 90; Indels 0; Gaps 0;  
Qy 1 AAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCTTACACTG 60  
Db 313 ACAAGGACAGCTCATAGTTGGGATCTCTACCTGCAACATGGAGACCCCTACACCC 372  
Qy 61 AGCAGATGGCAACTGTGGAGAGAGGGTGAAGGATCCACTCTCTGATTTTCATTG 120  
Db 373 TTCAGTATGGACAGTGTGGGACAGAGGACATACATCACTTCACTCCAACTTCCTAC 432  
Qy 121 CAGGAAAAAGTTAGTGAATATGACCAACAGGTAGGCGATTTGTCATGATGGGCTC 180  
Db 433 TCACGTGATAACTTGGCTATCTATGGACCCGAGGACAGTCTTTGTCATGATGGGCC 492  
Qy 181 ATCTACGATGGGAGTATTTGACGAGTACAATAATGATGAGAAATTTCTACTTATCCA 237  
Db 493 ATCTCGGTGGGAGTATTTGATGATGATATACGTGGACCGGTCACTTTACATTTCTA 549

## RESULT 11

US-09-643-597-358  
; Sequence 358, Application US/09643597  
; Patent No. 6426072  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Fan, Liqun  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Hosken, Nancy  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Li, Samuel X.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Skeiky, Yasir A.W.  
; APPLICANT: Henderson, Robert A.  
; APPLICANT: McNeill, Patricia D.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; FILE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER  
; FILE REFERENCE: 210121.455C11  
; CURRENT APPLICATION NUMBER: US/09/643,597  
; CURRENT FILING DATE: 2000-08-21  
; NUMBER OF SEQ ID NOS: 369  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 358

; LENGTH: 2773  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-643-597-358

Query Match 32.3%; Score 77.6; DB 4; Length 2773;  
Best Local Similarity 61.0%; Pred. No. 6.1e-17;  
Matches 144; Conservative 0; Mismatches 89; Indels 3; Gaps 1;

Qy 1 AAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCTTACACTG 60  
Db 254 AAAAGGCAATGTCATAGTCACTGCTGTATGGGCACATGGAGATGATCCATACACC 313  
Qy 61 AGCAGATGGCAACTGTGGAGAGAGGGTGAAGGATCCACTCTCTGATTTTCATTG 120  
Db 314 TACAATACAGAGGGTGTGGAAGAGGGAATAACATTCACTTACACCTAATTTCTCTAC 373  
Qy 121 CAGGAAAAAGTT---AGCTGAATATGACCAACAGGTAGGCGATTTGTCATGATGGG 177  
Db 374 TGAATGATAACTTAACAGCTGGCTACGGATCAGAGCGCGAGTGTGTTGTCCATGAATGG 433  
Qy 178 CTCATCTACGATGGGAGTATTTGACGAGTACAATAATGATGAGAAATTTCTACTTA 233  
Db 434 CCCACCTCGTTGGGTGTGTTGATGATGATATACAAACCTTTCTACATA 489

## RESULT 12

US-09-643-597-168  
; Sequence 168, Application US/09643597  
; Patent No. 6426072  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Fan, Liqun  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Hosken, Nancy  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Li, Samuel X.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Skeiky, Yasir A.W.  
; APPLICANT: Henderson, Robert A.  
; APPLICANT: McNeill, Patricia D.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; FILE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER  
; FILE REFERENCE: 210121.455C11  
; CURRENT APPLICATION NUMBER: US/09/643,597  
; CURRENT FILING DATE: 2000-08-21  
; NUMBER OF SEQ ID NOS: 369  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 168  
; LENGTH: 2784  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-643-597-168

Query Match 32.3%; Score 77.6; DB 4; Length 2784;  
Best Local Similarity 61.0%; Pred. No. 6.1e-17;  
Matches 144; Conservative 0; Mismatches 89; Indels 3; Gaps 1;  
Qy 1 AAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCTTACACTG 60  
Db 396 AAAAGGCAATGTCATAGTCACTGCTGTATGGGCACATGGAGATGATCCATACACC 455  
Qy 61 AGCAGATGGCAACTGTGGAGAGAGGGTGAAGGATCCACTCTCTGATTTTCATTG 120  
Db 456 TACAATACAGAGGGTGTGGAAGAGGGAATAACATTCACTTACACCTAATTTCTCTAC 515  
Qy 121 CAGGAAAAAGTT---AGCTGAATATGACCAACAGGTAGGCGATTTGTCATGATGGG 177  
Db 516 TGAATGATAACTTAACAGCTGGCTACGGATCAGAGCGCGAGTGTGTTGTCATGATGG 575  
Qy 178 CTCATCTACGATGGGAGTATTTGACGAGTACAATAATGATGAGAAATTTCTACTTA 233

Db 576 CCCACCTCCGTTGGGGTGTGTTTCGATGAGTATACAAATGACAAACCTTTCTACATA 631

## RESULT 13

US-09-480-884A-168

; Sequence 168, Application US/09480884A

; Patent No. 6482597

; GENERAL INFORMATION:

; APPLICANT: Wang, TongLong

; APPLICANT: Fan, Liqun

; APPLICANT: Hosken, Nancy A.

; APPLICANT: Kalos, Michael D.

; APPLICANT: Fanger, Gary R.

; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY

; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER

; FILE REFERENCE: 210121.455C6

; CURRENT APPLICATION NUMBER: US/09/480,884A

; CURRENT FILING DATE: 2001-08-27

; NUMBER OF SEQ ID NOS: 330

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 168

; LENGTH: 2784

; TYPE: DNA

; ORGANISM: Homo sapien

US-09-480-884A-168

Query Match 32.3%; Score 77.6; DB 4; Length 2784;

Best Local Similarity 61.0%; Pred. No. 6.1e-17;

Matches 144; Conservative 0; Mismatches 89; Indels 3; Gaps 1;

Qy 1 AAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCTTACACTG 60

Db 396 AAAAGGCAATGTCATAGTACTGCTGATGGGCACATGGAGATGATCATACACC 455

Qy 61 AGCAGATGGCAACTGTGGAGAGAGGTGAAGGATCCACTCTCTGATTTTCATG 120

Db 456 TACAATACAGAGGGTGTGAAAAGAGGGAATAATTCATTTCACACCTAATTTCTAC 515

Qy 121 CAGGAAAAAGTT---AGCTGATATGACCAACAGGTAGGCGATTTGTCATGAGTGGG 177

Db 516 TGAATGATAACTTAACAGCTGGCTACGGATCACGAGGCGGAGTGTGTTGCCATGAATGGG 575

Qy 178 CTCATCTACGATGGGGAGTATTGACGAGTACAATAATGATGAGAAATTTCTACTTA 233

Db 576 CCCACCTCCGTTGGGGTGTGTTTCGATGAGTATACAAATGACAAACCTTTCTACATA 631

## RESULT 14

US-09-542-615A-168

; Sequence 168, Application US/09542615A

; Patent No. 6518256

; GENERAL INFORMATION:

; APPLICANT: Wang, TongLong

; APPLICANT: Fan, Liqun

; APPLICANT: Kalos, Michael D.

; APPLICANT: Bangur, Chaitanya S.

; APPLICANT: Hosken, Nancy A.

; APPLICANT: Fanger, Gary R.

; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY

; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER

; FILE REFERENCE: 210121.455C8

; CURRENT APPLICATION NUMBER: US/09/542,615A

; CURRENT FILING DATE: 2000-04-14

; NUMBER OF SEQ ID NOS: 350

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 168

; LENGTH: 2784

; TYPE: DNA

; ORGANISM: Homo sapien

US-09-542-615A-168

Query Match

Best Local Similarity 32.3%; Score 77.6; DB 4; Length 2784;

Matches 144; Conservative 0; Mismatches 89; Indels 3; Gaps 1;

Matches 144; Conservative 0; Mismatches 89; Indels 3; Gaps 1;

Qy 1 AAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCTTACACTG 60

Db 396 AAAAGGCAATGTCATAGTACTGCTGATGGGCACATGGAGATGATCATACACC 455

Qy 61 AGCAGATGGCAACTGTGGAGAGAGGTGAAGGATCCACTCTCTGATTTTCATG 120

Db 456 TACAATACAGAGGGTGTGAAAAGAGGGAATAATTCATTTCACACCTAATTTCTAC 515

Qy 121 CAGGAAAAAGTT---AGCTGAATATGACCAACAGGTAGGCGATTTGTCATGAGTGGG 177

Db 516 TGAATGATAACTTAACAGCTGGCTACGGATCACGAGGCGGAGTGTGTTGCCATGAATGGG 575

Qy 178 CTCATCTACGATGGGGAGTATTGACGAGTACAATAATGATGAGAAATTTCTACTTA 233

Db 576 CCCACCTCCGTTGGGGTGTGTTTCGATGAGTATACAAATGACAAACCTTTCTACATA 631

## RESULT 15

US-09-606-421B-168

; Sequence 168, Application US/09606421B

; Patent No. 6531315

; GENERAL INFORMATION:

; APPLICANT: Wang, TongLong

; APPLICANT: Fan, Liqun

; APPLICANT: Kalos, Michael D.

; APPLICANT: Bangur, Chaitanya S.

; APPLICANT: Hosken, Nancy

; APPLICANT: Fanger, Gary R.

; APPLICANT: Li, Samuel X.

; APPLICANT: Wang, Aijun

; APPLICANT: Skeiky, Yasir A.W.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY

; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER

; FILE REFERENCE: 210121.455C9

; CURRENT APPLICATION NUMBER: US/09/606,421B

; CURRENT FILING DATE: 2000-06-28

; NUMBER OF SEQ ID NOS: 358

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 168

; LENGTH: 2784

; TYPE: DNA

; ORGANISM: Homo sapien

US-09-606-421B-168

Query Match 32.3%; Score 77.6; DB 4; Length 2784;

Best Local Similarity 61.0%; Pred. No. 6.1e-17;

Matches 144; Conservative 0; Mismatches 89; Indels 3; Gaps 1;

Qy 1 AAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCTTACACTG 60

Db 396 AAAAGGCAATGTCATAGTACTGCTGATGGGCACATGGAGATGATCATACACC 455

Qy 61 AGCAGATGGCAACTGTGGAGAGAGGTGAAGGATCCACTCTCTGATTTTCATG 120

Db 456 TACAATACAGAGGGTGTGAAAAGAGGGAATAATTCATTTCACACCTAATTTCTAC 515

Qy 121 CAGGAAAAAGTT---AGCTGAATATGACCAACAGGTAGGCGATTTGTCATGAGTGGG 177

Db 516 TGAATGATAACTTAACAGCTGGCTACGGATCACGAGGCGGAGTGTGTTGCCATGAATGGG 575

Qy 178 CTCATCTACGATGGGGAGTATTGACGAGTACAATAATGATGAGAAATTTCTACTTA 233

Db 576 CCCACCTCCGTTGGGGTGTGTTTCGATGAGTATACAAATGACAAACCTTTCTACATA 631

Search completed: April 24, 2004, 05:01:00

Job time : 26.0609 secs

Result No.	Query			Description	
	Score	Match	Length	ID	
1	442	100.0	914	4	US-09-623-624-6
2	439	99.3	914	4	US-09-193-562D-28
3	356	80.5	913	4	US-09-623-624-2
4	298	67.4	917	4	US-09-049-698-41
5	265	60.0	903	4	US-09-193-562D-46
6	265	60.0	903	4	US-09-623-624-18
7	265	60.0	1000	4	US-09-193-562D-30
8	255	57.7	342	4	US-09-193-562D-13
9	255	57.7	795	4	US-09-193-562D-11
10	255	57.7	821	4	US-09-193-562D-12
11	255	57.7	905	4	US-09-193-562D-34
12	255	57.7	902	4	US-09-193-562D-2

; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-623-624-6

## Alignment Scores:

Pred. No.: 6.2e-51 Length: 914  
Score: 442.00 Matches: 79  
Percent Similarity: 100.00% Conservatives: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-3 (1-240) x US-09-623-624-6 (1-914)

QY 3 AATGCTGATGTTCTGGTTCCTGAGTCTACTCTCCAGGTAATGATGAACCTACACTGAG 62  
Db 101 AsnAlaAspValLeuValAlaGluSerThrProGlyAsnAspGluProTyrThrGlu 120  
QY 63 CAGATGGGCAACTGTGGAGAGAGGGTGAAGGATCCACCTCACTCTGATTTTCATTGCA 122  
Db 121 GlnMetGlyAsnCysGlyGluGlyGluArgileHisLeuThrProAspPheIleAla 140  
QY 123 GGAAGAAAGTTAGCTGAATATGACCAAGGATAGGCGATTTGTCCATGAGTGGGCTCAT 182  
Db 141 GlyLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis 160  
QY 183 CTACGATGGGAGTATTTCACGAGTACAATAATGATGAGAAATTCCTATTATCCCAAT 239  
Db 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsn 179

## RESULT 2

US-09-193-562D-28  
; Sequence 28, Application US/09193562D  
; Patent No. 6309857

; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 28  
; LENGTH: 914  
; TYPE: PRT

; ORGANISM: Homo sapiens  
US-09-193-562D-28

## Alignment Scores:

Pred. No.: 1.58e-50 Length: 914  
Score: 439.00 Matches: 78  
Percent Similarity: 100.00% Conservatives: 1  
Best Local Similarity: 98.73% Mismatches: 0  
Query Match: 99.32% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-3 (1-240) x US-09-193-562D-28 (1-914)

QY 3 AATGCTGATGTTCTGGTTCCTGAGTCTACTCTCCAGGTAATGATGAACCTACACTGAG 62  
Db 101 AsnAlaAspValLeuValAlaGluSerThrProGlyAsnAspGluProTyrThrGlu 120  
QY 63 CAGATGGGCAACTGTGGAGAGAGGGTGAAGGATCCACCTCACTCTGATTTTCATTGCA 122  
Db 121 GlnMetGlyAsnCysGlyGluGlyGluArgileHisLeuThrProAspPheIleAla 140  
QY 123 GGAAGAAAGTTAGCTGAATATGACCAAGGATAGGCGATTTGTCCATGAGTGGGCTCAT 182

Db 141 GlyLysLeuAlaGluTyrGlyProGlnGlyLysAlaPheValHisGluTrpAlaHis 160  
QY 183 CTACGATGGGAGTATTTCACGAGTACAATAATGATGAGAAATTCCTATTATCCCAAT 239  
Db 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsn 179

## RESULT 3

US-09-623-624-2  
; Sequence 2, Application US/09623624  
; Patent No. 6576434

; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; NUMBER OF SEQ ID NOS: 18

; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 2

; LENGTH: 913  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-09-623-624-2

## Alignment Scores:

Pred. No.: 2.56e-39 Length: 913  
Score: 356.00 Matches: 62  
Percent Similarity: 88.46% Conservatives: 7  
Best Local Similarity: 79.49% Mismatches: 9  
Query Match: 80.54% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-3 (1-240) x US-09-623-624-2 (1-913)

QY 3 AATGCTGATGTTCTGGTTCCTGAGTCTACTCTCCAGGTAATGATGAACCTACACTGAG 62  
Db 101 AsnAlaAspValLeuValSerThrThrProGlyAsnAspGluProTyrThrGlu 120  
QY 63 CAGATGGGCAACTGTGGAGAGAGGGTGAAGGATCCACCTCACTCTGATTTTCATTGCA 122  
Db 121 HisIleGlyAlaCysGlyGluLysGlyIleArgileHisLeuThrProAspPheLeuAla 140  
QY 123 GGAAGAAAGTTAGCTGAATATGACCAAGGATAGGCGATTTGTCCATGAGTGGGCTCAT 182  
Db 141 GlyLysLeuThrGlnTyrGlyProGlnAspArgThrPheValHisGluTrpAlaHis 160



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Db 120 GlnPheThrGluCysGlyGluLysGlyGluTyrIleHisPheThrProAspLeuLeuLeu 139
Qy 123 GGAHAAAGATTAGCTGAATATGACACACAGGTAGGCGCATTTCTCCATGAGTGGGTCTCAT 182
Db 140 GluLysLysGlnAsnGluTyrGlyProGlyLysLeuPheValHisGluTrpAlaHis 159
Qy 183 CTACGATGGGGAGTATTTGACGAGTCAATAATGATGAGAAATCTTAC 230
Db 160 LeuArgTrpGlyValPheAspGluTyrAsnGluAspGlnProPheTyr 175

RESULT 5
US-09-193-562D-46
; Sequence 46, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 46
; LENGTH: 903
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Calcium sensitive chloride channel from bovine tracheal
; OTHER INFORMATION: epithelium (Cunningham et al., 1995, J. Biol Chem., 270:31016-
US-09-193-562D-46

Alignment Scores:
Pred. No.: 5e-27 Length: 903
Score: 265.00 Matches: 46
Percent Similarity: 72.73% Conservative: 10
Best Local Similarity: 59.74% Mismatches: 21
Query Match: 59.95% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-3 (1-240) x US-09-193-562D-46 (1-903)
Qy 6 GCTGATGTTCTGCTGCTGAGTCTACTCTCCAGGTAATGATGAACCTACACTGAGCAG 65
Db 101 AlgluValIleValAlaAsnProTyrLeuLysHisGlyAspAspProTyrThrLeuGln 120
Qy 66 ATGGCGAACTGTGCGAGAGAGGCTGAAGATCCACTCCTCATCTGATTTTCATTGCAGGA 125
Db 121 TyrGlyArgCysGlyGluLysGlyGlnTyrIleHisPheThrProAsnPheLeuThr 140
Qy 126 AAAAAGTTAGCTGAATATGACACACAGGTAGGCGCATTTGTCATGAGTGGGTCTCATCTA 185
Db 141 AsnAsnLeuProIleTyrGlySerArgGlyArgAlaPheValHisGluTrpAlaHisLeu 160
Qy 186 CGATGGGGAGTATTTGACGAGTCAATAATGATGAGAAATCTTACTTATCC 236
Db 161 ArgTrpGlyIlePheAspGluTyrAsnGlyAspGlnProPheTyrIleSer 177

RESULT 6
US-09-623-624-18
; Sequence 18, Application US/09623624
; Patent No. 6576434
; GENERAL INFORMATION:
; APPLICANT: Magainin Pharmaceuticals, Inc.
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/09/623,624
; CURRENT FILING DATE: 2000-09-06

```

Qy	6	GCTGATGTTCTGTTGCTGA	CTCTACTCTCCAGGTAATGATGAA	CCCTCACTGACGACG	65
Db	101	AlaAspValIleValAlaAsn	ProTyrLeuIysTyrGlyAsp	AspProTyrThrLeuGln	120
Qy	66	ATGGCACTGGGAGACAGGGT	GAAGGATCCACCTCACTCTCTGATTTTC	ATTTCATTTGCACGA	135
Db	121	TyrGlyArgCysGlyGlu	GlyIysTyrIleHisPheThrProAsn	PheLeuLeuThr	140
Qy	126	AAAAAGTTAGCTGAA	TATGGACCAAGGTAGGACATTTGT	TCCATGATGGTGGGTCATCTA	185

```

; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 30

```

Qy	6	GCTGAGTTCTCGTTGCTAGTCTACTCCTCCAGGTAAATGATGAACCTTACATGACGACG	65
Db	101	AlaGluValIleValAlaAsnProTyrLeuLysHisGlyAspAspProTyrThrLeuGln	120
Qy	66	ATGGCCAACTGTGGAGAGAGGGTCAAGAGGATCCACCTCTACTCTGTGATTTTCATTGCAGGA	125
Db	121	TyrGlyArgCysGlyGluLysGlyGlnTyrIleHisPheThrProAsnPheLeuLeuThr	140
Qy	126	AAAAAGTAGCTCAATATGCGACCAACAGGTAGGGCATTTGTCCATGATGGTGGGTCATCTA	185
Db	141	AsnAsnLeuProIleTyrGlySerArgGlyArgAlaPheValHisGluTnPAlaHisLeu	160
Qy	186	CGATGGGGAGTATTTGACGAGTACAAATATGATGAGAAATTTCTACTTATCC	236
Db	161	ArgTrpGlyIlePheAspGluTyrAsnGlnVaspGlnProPheTyrIleSer	177

```

; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-12

Alignment Scores:
Pred. No.: 1,09e-25 Length: 821
Score: 255.00 Matches: 45
Percent Similarity: 70.13% Conservative: 9
Best Local Similarity: 58.44% Mismatches: 23
Query Match: 57.69% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-3 (1-240) x US-09-193-562D-12 (1-821)
QY 6 GCTGATGTTCTGGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCTACATGAGCAG 65
Db 101 AlaAspValIleValAlaAsnProTyrLeuLysTyrGlyAspAspProTyrThrLeuGln 120
QY 66 ATGGGCACTGTGGAGAGAAAGGTGAAGGATCCACCTCACTCTCTGATTTTCATTGCAGGA 125
Db 121 TyrGlyArgCysGlyGluLysTyrIleHisPheThrProAsnPheLeuThr 140
QY 126 AAAAAGTTAGCTGAATATATGGACCAAGGTAGGCAATTTGTCCATGATGGGCTCATCTA 185
Db 141 AsnAsnPheHisIleTyrGlySerArgGlyArgValPheValHisGluTrpAlaHisLeu 160
QY 186 CGATGGGAGATATTTGACGAGGTACAATAATGATGAGAAATTTACTATTATCC 236
Db 161 ArgTrpGlyIlePheAspGluTyrAsnValAspGlnProPheTyrIleSer 177

RESULT 11
US-09-193-562D-34
; Sequence 34, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 34
; LENGTH: 902
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-193-562D-34

Alignment Scores:
Pred. No.: 1,12e-25 Length: 902
Score: 255.00 Matches: 45
Percent Similarity: 71.43% Conservative: 10
Best Local Similarity: 58.44% Mismatches: 22
Query Match: 57.69% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-3 (1-240) x US-09-193-562D-34 (1-902)
QY 6 GCTGATGTTCTGGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCTACATGAGCAG 65
Db 101 AlaAspValIleValAlaAspProHisLeuGlnHisGlyAspAspProTyrThrLeuGln 120
QY 66 ATGGGCACTGTGGAGAGAAAGGTGAAGGATCCACCTCACTCTCTGATTTTCATTGCAGGA 125
Db 121 TyrGlyGlnCysGlyAspArgGlyGlnTyrIleHisPheThrProAsnPheLeuThr 140
QY 126 AAAAAGTTAGCTGAATATATGGACCAAGGTAGGCAATTTGTCCATGATGGGCTCATCTA 185
Db 141 AspAsnLeuArgIleTyrGlyProArgGlyArgValPheValHisGluTrpAlaHisLeu 160
QY 186 CGATGGGAGATATTTGACGAGGTACAATAATGATGAGAAATTTACTATTATCC 236

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Db 161 ArgTTPGlyValPheAspGluTyrAsnValAspArgSerProTyrIleSer 177

## RESULT 12

US-09-193-562D-2

; Sequence 2, Application US/09193562D

; Patent No. 6309857

; GENERAL INFORMATION:

; APPLICANT: Pauli, Benedicht U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules

; FILE REFERENCE: 18617.0052

; CURRENT APPLICATION NUMBER: US/09/193,562D

; CURRENT FILING DATE: 1998-11-17

; PRIOR APPLICATION NUMBER: US/60/065,922

; PRIOR FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 2

; LENGTH: 905

; TYPE: PRT

; ORGANISM: Unknown

; FEATURE:

; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells

US-09-193-562D-2

## Alignment Scores:

Pred. No.:	1,12e-25	Length:	905
Score:	255.00	Matches:	45
Percent Similarity:	70.13%	Conservative:	9
Best Local Similarity:	58.44%	Mismatches:	23
Query Match:	57.69%	Indels:	0
DB:	4	Gaps:	0

US-09-049-696-3 (1-240) x US-09-193-562D-2 (1-905)

QY 6 GCTGATGTTCTGGTGTCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTGAGCAG 65

Db 101 AlaAspValIleValAlaAsnProTyrLeuLysTyrGlyAspAspProTyrThrLeuGln 120

QY 66 ATGGGCAACTGTGGAGAGAGGGTGAAGGATCCACCTCCTCCTGATTCATTTCATTCGAGCA 125

Db 121 TyrGlyArgCysGlyGluLysGlyIleHisPheThrProAsnPheLeuLeuThr 140

QY 126 AAAAAAGTTAGTGAATGACCAAGGATAGGCGATTTGTCCATGAGTGGGCTCATCTA 185

Db 141 AsnAsnPheHisIleTyrGlySerArgGlyAsgValPheValHisGluTrpAlaHisLeu 160

QY 186 CGATGGGAGTATTTGACGAGTACATAATGATGAGAAATTCCTATTATCC 236

Db 161 ArgTTPGlyIlePheAspGluTyrAsnValAspGlnProPheTyrIleSer 177

## RESULT 13

US-09-643-597-169

; Sequence 169, Application US/09643597

; Patent No. 6426072

; GENERAL INFORMATION:

; APPLICANT: Wang, Tongtong

; APPLICANT: Fan, Liqun

; APPLICANT: Kalos, Michael D.

; APPLICANT: Bangur, Chaitanya S.

; APPLICANT: Hosken, Nancy

; APPLICANT: Fanger, Gary R.

; APPLICANT: Li, Samuel X.

; APPLICANT: Wang, Aljun

; APPLICANT: Skeiky, Yasir A.W.

; APPLICANT: Henderson, Robert A.

; APPLICANT: McNeill, Patricia D.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY

; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER

; FILE REFERENCE: 210121.455C11

; CURRENT APPLICATION NUMBER: US/09/643,597

; CURRENT FILING DATE: 2000-08-21

; NUMBER OF SEQ ID NOS: 369

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 169  
; LENGTH: 592  
; TYPE: PRT  
; ORGANISM: Homo sapien  
US-09-643-597-169

## Alignment Scores:

Pred. No.:	1,21e-23	Length:	592
Score:	239.50	Matches:	43
Percent Similarity:	71.79%	Conservative:	13
Best Local Similarity:	55.13%	Mismatches:	21
Query Match:	54.19%	Indels:	1
DB:	4	Gaps:	1

US-09-049-696-3 (1-240) x US-09-643-597-169 (1-592)

QY 6 GCTGATGTTCTGGTGTCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTGAGCAG 65

Db 109 AlaAsnValIleValThrAspTyrGlyAlaHisGlyAspAspProTyrThrLeuGln 128

QY 66 ATGGGCAACTGTGGAGAGAGGGTGAAGGATCCACCTCCTCCTGATTCATTTCATTCGAGCA 125

Db 129 TyrArgGlyCysGlyLysGluGlyLysTyrIleHisPheThrProAsnPheLeuLeuAsn 148

QY 126 AAAAAAGTTA--GCTGAATATGGACCAAGGATAGGCGATTTGTCCATGAGTGGGCTCAT 182

Db 149 AspAsnLeuThrAlaGlyTyrGlySerArgGlyAsgValPheValHisGluTrpAlaHis 168

QY 183 CTACGATGGGAGTATTTGACGAGTACATAATGATGAGAAATTCCTATTATCC 236

Db 169 LeuArgTTPGlyValPheAspGluTyrAsnAsnAspLysProPheTyrIleAsn 186

## RESULT 14

US-09-480-884A-169

; Sequence 169, Application US/09480884A

; Patent No. 6482597

; GENERAL INFORMATION:

; APPLICANT: Wang, Tongtong

; APPLICANT: Fan, Liqun

; APPLICANT: Hosken, Nancy A.

; APPLICANT: Kalos, Michael D.

; APPLICANT: Fanger, Gary R.

; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY

; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER

; FILE REFERENCE: 210121.455C6

; CURRENT APPLICATION NUMBER: US/09/480,884A

; CURRENT FILING DATE: 2001-08-27

; NUMBER OF SEQ ID NOS: 330

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 169

; LENGTH: 592

; TYPE: PRT

; ORGANISM: Homo sapien

US-09-480-884A-169

## Alignment Scores:

Pred. No.:	1,21e-23	Length:	592
Score:	239.50	Matches:	43
Percent Similarity:	71.79%	Conservative:	13
Best Local Similarity:	55.13%	Mismatches:	21
Query Match:	54.19%	Indels:	1
DB:	4	Gaps:	1

US-09-049-696-3 (1-240) x US-09-480-884A-169 (1-592)

QY 6 GCTGATGTTCTGGTGTCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTGAGCAG 65

Db 109 AlaAsnValIleValThrAspTyrGlyAlaHisGlyAspAspProTyrThrLeuGln 128

QY 66 ATGGGCAACTGTGGAGAGAGGGTGAAGGATCCACCTCCTCCTGATTCATTTCATTCGAGCA 125

Db 129 TyrArgGlyCysGlyLysGluGlyLysTyrIleHisPheThrProAsnPheLeuLeuAsn 148

**Qy** 126 AAAAAGTTA---GCTGAATATGGACCAACAAGTAGGCATTGTTCATAGTGGCGTCAT 182  
| | | | | : | | | | | : | | | | |  
**Db** 149 AspAsnLeuThrAlaIagLtyrGIysErArgLyargValPheValHisGLutPrAlaHis 168  
| | | | | : | | | | | : | | | | |  
**Qy** 183 CTACGATGGGGAGTATTTTGACGAGTGACAAATAATCATGAGAATAATCTACTATTACC 236  
| | | | | : | | | | | : | | | | |  
**Db** 169 LeuArgTrpGLyValPheAspGLutyArasnAsnAsplysProPhetVrileAsn 186  
| | | | | : | | | | | : | | | | |

**RESULT 15**

```

RESULT 15
US-09-542-615A-169
US-09-542-615A, Application US/09542615A
; Sequence 169,
; Patent No. 6518256
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Ligu
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy A.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455C8
; CURRENT APPLICATION NUMBER: US/09/542,615A
; CURRENT FILING DATE: 2000-04-14
; NUMBER OF SEQ ID NOS: 350
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 169
; LENGTH: 592
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-542-615A-169

```

Alignment Scores:		
Pred. No.:	1,218-23	Length:
Score:	239.50	Matches:
Percent Similarity:	71.79%	Conservative:
Best Local Similarity:	55.13%	Mismatches:
Query Match:	54.19%	Indels:
DB:	4	Gaps:
		592

US-09-049-696-3 (1-240) x US-09-542-615A-169 (1-592)

	6	GCTGATGTTCTGGTTCAGTGCTACTCCTCCAGGTAAATGATGAACCTACTACTGACGAG	65
QY		::   :::	
	109	AlaAsnValIleValThrAspTrpTyrGlyAlaHisGlyAspProtyrThrLeuGln	128
Db		::   :::	
	66	ATGGCCAACTGTGGAGAGAAGGGTCAAGAGATCACCTCACTCCTGATTTTCATTGCAGGA	125
QY		::   :::	
	129	TyrArgGlyCysGlyLysGluGlyLysTyrIleHisPheThrProAsnPhelLeuLeuAsn	148
Db		::   :::	
	126	AAAAAGTTA---GCTGAATATGGACCACCAAGTAGGCGATTGTGCCATGATGGTGGCTCAT	182
QY		::   :::	
	149	AspAsnLeuThrAlaGlyTyrGlySerArgglyArgValPheValHisGluTrpAlaHis	168
Db		::   :::	
	183	CTACGATGGGGAGTATTTGACAGGTACAATAATGATGAGAAATTTCTATTATCC	236
QY		::   :::	
	169	LeuArqtTpGIvvalPheAspSGlyTyrAsnAsnAspIysProPheTyrlleAsn	186
Db		::   :::	

Search completed: April 21, 2004, 16:21:54  
Job time : 14.2471 secs

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: April 24, 2004, 04:05:52 ; Search time 146.099 Seconds  
(without alignments)  
8424.829 Million cell updates/sec

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Perfect score: 273  
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Scoring table: IDENTITY\_NUC  
Gapop 10\_0 , Gapext 1.0

Searched: 2907579 seqs, 2254313464 residues  
Total number of hits satisfying chosen parameters: 5815158

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications NA:\*

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4: /cgn2\_6/ptodata/2/pubpna/US06\_PUBCOMB.seq:  
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7: /cgn2\_6/ptodata/2/pubpna/US08\_PUBCOMB.seq:  
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9: /cgn2\_6/ptodata/2/pubpna/US09\_PUBCOMB.seq:  
10: /cgn2\_6/ptodata/2/pubpna/US09\_PUBCOMB.seq:  
11: /cgn2\_6/ptodata/2/pubpna/US09\_PUBCOMB.seq:  
12: /cgn2\_6/ptodata/2/pubpna/US09\_PUBCOMB.seq:  
13: /cgn2\_6/ptodata/2/pubpna/US10\_PUBCOMB.seq:  
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15: /cgn2\_6/ptodata/2/pubpna/US10\_PUBCOMB.seq:  
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18: /cgn2\_6/ptodata/2/pubpna/US10\_PUBCOMB.seq:  
19: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	267.4	97.9	508	15	Sequence 1503, Ap
2	267.4	97.9	2745	15	Sequence 5, Appli
3	267.4	97.9	2854	15	Sequence 1971, Ap
4	267.4	97.9	2867	15	Sequence 351, App
5	267.4	97.9	3007	15	Sequence 27, Appl
6	267.4	97.9	3111	9	Sequence 25, Appl
7	267.4	97.9	3111	9	Sequence 191, App
8	267.4	97.9	3111	15	Sequence 25, Appl
9	267.4	97.9	3267	9	Sequence 22, Appl
10	267.4	97.9	3311	9	Sequence 1056, Ap
11	267.4	97.9	3311	9	Sequence 1056, Ap
12	267.4	97.9	3311	14	Sequence 1056, Ap
13	267.4	97.9	3311	15	Sequence 11, Appl
14	267.4	97.9	3311	15	Sequence 12, Appl

15	267.4	97.9	3311	15	US-10-393-590-46	Sequence 46, Appl
16	267.4	97.9	3311	15	US-10-393-590-47	Sequence 47, Appl
17	267.4	97.9	3311	15	US-10-393-567-11	Sequence 11, Appl
18	267.4	97.9	3311	15	US-10-393-567-12	Sequence 12, Appl
19	267.4	97.9	3311	15	US-10-393-567-46	Sequence 46, Appl
20	267.4	97.9	3311	15	US-10-393-567-47	Sequence 47, Appl
21	267.4	97.9	3311	15	US-10-394-087-11	Sequence 11, Appl
22	267.4	97.9	3311	15	US-10-394-087-12	Sequence 12, Appl
23	267.4	97.9	3311	15	US-10-394-087-46	Sequence 46, Appl
24	267.4	97.9	3311	15	US-10-394-087-47	Sequence 47, Appl
25	266.4	97.6	533	14	US-10-033-528-1883	Sequence 1883, Ap
26	266.4	97.6	533	15	US-10-039-926-1883	Sequence 1883, Ap
27	263.8	96.6	533	13	US-09-878-134-182	Sequence 182, App
28	245.4	89.9	401	9	US-09-922-217-34	Sequence 34, Appl
29	245.4	89.9	401	9	US-09-833-263-34	Sequence 34, Appl
30	245.4	89.9	401	14	US-10-025-380-34	Sequence 34, Appl
31	214.8	78.7	4569	10	US-09-867-034-3	Sequence 3, Appli
32	214.8	78.7	4569	13	US-10-276-115-3	Sequence 3, Appli
33	210.4	77.1	3109	15	US-10-106-698-2111	Sequence 2111, Ap
34	201.4	73.8	331	15	US-10-066-543-1682	Sequence 1682, Ap
35	201.4	73.8	331	15	US-10-066-543-2191	Sequence 2191, Ap
36	182.2	66.7	2931	15	US-10-270-595-1	Sequence 1, Appli
37	151.2	55.4	2754	15	US-10-345-680-33	Sequence 33, Appl
38	151.2	55.4	3043	14	US-10-025-167-16	Sequence 16, Appl
39	151.2	55.4	3169	9	US-09-981-353-53	Sequence 53, Appl
40	151.2	55.4	3169	15	US-10-235-994-15	Sequence 15, Appl
41	151.2	55.4	3181	14	US-10-025-167-18	Sequence 18, Appl
42	151.2	55.4	3195	10	US-09-867-034-22	Sequence 22, Appl
43	151.2	55.4	3195	13	US-10-276-115-22	Sequence 22, Appl
44	151.2	55.4	3196	15	US-10-158-646-39	Sequence 39, Appl
45	151.2	55.4	3199	13	US-10-276-774-993	Sequence 993, App

ALIGNMENTS

RESULT 1

US-10-066-543-1503  
; Sequence 1503, Application US/10066543  
; Publication No. US20030087818A1  
; GENERAL INFORMATION:  
; APPLICANT: Jiang, Yugu  
; APPLICANT: Pyle, Ruth A.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Indrias, Carol Joseph  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Carter, Darrick  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Smith, Carole L.  
; APPLICANT: Durham, Margarita  
; APPLICANT: Stolk, John A.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER  
; FILE REFERENCE: 210121.563  
; CURRENT APPLICATION NUMBER: US/10/066,543  
; NUMBER OF SEQ ID NOS: 3417  
; SOFTWARE: FASTSEQ for Windows Version 4.0  
; SEQ ID NO 1503  
; LENGTH: 508  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-066-543-1503

Query Match 97.9%; Score 267.4; DB 15; Length 508;  
Best Local Similarity 98.2%; Pred. No. 1.6e-72;  
Matches 268; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GTTGAATCGACCCCAATGTGCCAGAGATGAACACTCATTCACAAATAAGGACATG 60  
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DB 112 GTTGAATCGACCCCAATGTGCCAGAGATGAACACTCATTCACAAATAAGGACATG 171

QY 61 GTGACCCAGGCATCTCTGATCTGTTTGAAGCTACAGGAAGCGATTTTATTTCAAAAT 120  
DB 172 GTGACCCAGGCATCTCTGATCTGTTTGAAGCTACAGGAAGCGATTTTATTTCAAAAT 231  
QY 121 GTTGCCATTTTGCATCTCTGAAATGGAAGACAAAGGNTGATATGTGAGACCAAACTT 180  
DB 232 GTTGCCATTTTGCATCTCTGAAATGGAAGACAAAGGNTGATATGTGAGACCAAACTT 291  
QY 181 GAGACCTACAAAATGCTGATGTTCTGGTTGCTGAGTCTTANTCCTCCAGGNAATGATGAA 240  
DB 292 GAGACCTACAAAATGCTGATGTTCTGGTTGCTGAGTCTTANTCCTCCAGGTAATGATGAA 351  
QY 241 CCCTACACTGNGCAGATGGGCAACTGTGGCGAG 273  
DB 352 CCCTACACTGAGCAGATGGGCAACTGTGGAGAG 384

## RESULT 2

US-10-270-595-5  
; Sequence 5, Application US/10270595  
; Publication No. US20030078409A1  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; PRIOR FILING DATE: 2002-10-16  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 2745  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(2742)  
US-10-270-595-5

Query Match 97.9%; Score 267.4; DB 15; Length 2745;  
Best Local Similarity 98.2%; Pred. No. 3.9e-72;  
Matches 268; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GTTGCAATCGACCCCAATGTGCCAGAGATGAACACATCTTCAACAAATAAAGACATG 60  
DB 109 GTTGCAATCGACCCCAATGTGCCAGAGATGAACACATCTTCAACAAATAAAGACATG 168  
QY 61 GTGACCCAGGCATCTCTGATCTGTTTGAAGCTACAGGAAGCGATTTTATTTCAAAAT 120  
DB 169 GTGACCCAGGCATCTCTGATCTGTTTGAAGCTACAGGAAGCGATTTTATTTCAAAAT 228

QY 121 GTTGCCATTTTGCATCTCTGAAATGGAAGACAAAGGNTGATATGTGAGACCAAACTT 180  
DB 229 GTTGCCATTTTGCATCTCTGAAATGGAAGACAAAGGNTGATATGTGAGACCAAACTT 288  
QY 191 GAGACCTACAAAATGCTGATGTTCTGGTTGCTGAGTCTTANTCCTCCAGGNAATGATGAA 240  
DB 289 GAGACCTACAAAATGCTGATGTTCTGGTTGCTGAGTCTTANTCCTCCAGGTAATGATGAA 348  
QY 241 CCCTACACTGNGCAGATGGGCAACTGTGGCGAG 273  
DB 349 CCCTACACTGAGCAGATGGGCAACTGTGGAGAG 381

## RESULT 3

US-10-106-698-1971  
; Sequence 1971, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 1971  
; LENGTH: 2854  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-106-698-1971

Query Match 97.9%; Score 267.4; DB 15; Length 2854;  
Best Local Similarity 98.2%; Pred. No. 4e-72;  
Matches 268; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GTTGCAATCGACCCCAATGTGCCAGAGATGAACACATCTTCAACAAATAAAGACATG 60  
DB 143 GTTGCAATCGACCCCAATGTGCCAGAGATGAACACATCTTCAACAAATAAAGACATG 202  
QY 61 GTGACCCAGGCATCTCTGATCTGTTTGAAGCTACAGGAAGCGATTTTATTTCAAAAT 120  
DB 203 GTGACCCAGGCATCTCTGATCTGTTTGAAGCTACAGGAAGCGATTTTATTTCAAAAT 262  
QY 121 GTTGCCATTTTGCATCTCTGAAATGGAAGACAAAGGNTGATATGTGAGACCAAACTT 180  
DB 263 GTTGCCATTTTGCATCTCTGAAATGGAAGACAAAGGNTGATATGTGAGACCAAACTT 322  
QY 181 GAGACCTACAAAATGCTGATGTTCTGGTTGCTGAGTCTTANTCCTCCAGGNAATGATGAA 240  
DB 323 GAGACCTACAAAATGCTGATGTTCTGGTTGCTGAGTCTTANTCCTCCAGGTAATGATGAA 382  
QY 241 CCCTACACTGNGCAGATGGGCAACTGTGGCGAG 273  
DB 383 CCCTACACTGAGCAGATGGGCAACTGTGGAGAG 415

## RESULT 4

US-10-106-698-351  
; Sequence 351, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524



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; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 351
; LENGTH: 2867
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-106-698-351

Query Match
Best Local Similarity 97.9%; Score 267.4; DB 15; Length 2867;
Matches 268; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GTTGCAATCGACCCCAATGTGCGAAGATGAACACATCTATTCAACAAATAAAGGACATG 60
DB 146 GTTGCAATCGACCCCAATGTGCGAAGATGAACACATCTATTCAACAAATAAAGGACATG 205
QY 61 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAAGCGATTTTATTTCAAAAT 120
DB 206 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAAGCGATTTTATTTCAAAAT 265
QY 121 GTTGCCATTTTCAATCTCTGAAACATGGAAGACAAAGGNTGACTATGTGAGACCAAAACTT 180
DB 266 GTTGCCATTTTCAATCTCTGAAACATGGAAGACAAAGGNTGACTATGTGAGACCAAAACTT 325
QY 181 GAGACCTACAAAATGCTGATCTTCTGTTGCTGAGTCTANTCTCCAGGNAATGATGAA 240
DB 326 GAGACCTACAAAATGCTGATCTTCTGTTGCTGAGTCTANTCTCCAGGNAATGATGAA 385
QY 241 CCCTACACTGNGCAGATGGGCAACTGTGGCGAG 273
DB 386 CCCTACACTGAGCAGATGGGCAACTGTGGAGAG 418

RESULT 5
US-10-055-412B-27
; Sequence 27, Application US/10055412B
; Publication No. US20030059861A1
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0058
; CURRENT APPLICATION NUMBER: US/10/055,412B
; CURRENT FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: US/09/193,562
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 27
; LENGTH: 3007
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-055-412B-27

Query Match
Best Local Similarity 97.9%; Score 267.4; DB 15; Length 3007;
Matches 268; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GTTGCAATCGACCCCAATGTGCGAAGATGAACACATCTATTCAACAAATAAAGGACATG 60
DB 155 GTTGCAATCGACCCCAATGTGCGAAGATGAACACATCTATTCAACAAATAAAGGACATG 214
QY 61 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAAGCGATTTTATTTCAAAAT 120
DB 215 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAAGCGATTTTATTTCAAAAT 274
QY 121 GTTGCCATTTTCAATCTCTGAAACATGGAAGACAAAGGNTGACTATGTGAGACCAAAACTT 180

; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 351
; LENGTH: 2867
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-106-698-351

Query Match
Best Local Similarity 97.9%; Score 267.4; DB 15; Length 2867;
Matches 268; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GTTGCAATCGACCCCAATGTGCGAAGATGAACACATCTATTCAACAAATAAAGGACATG 60
DB 146 GTTGCAATCGACCCCAATGTGCGAAGATGAACACATCTATTCAACAAATAAAGGACATG 205
QY 61 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAAGCGATTTTATTTCAAAAT 120
DB 206 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAAGCGATTTTATTTCAAAAT 265
QY 121 GTTGCCATTTTCAATCTCTGAAACATGGAAGACAAAGGNTGACTATGTGAGACCAAAACTT 180
DB 266 GTTGCCATTTTCAATCTCTGAAACATGGAAGACAAAGGNTGACTATGTGAGACCAAAACTT 325
QY 181 GAGACCTACAAAATGCTGATCTTCTGTTGCTGAGTCTANTCTCCAGGNAATGATGAA 240
DB 326 GAGACCTACAAAATGCTGATCTTCTGTTGCTGAGTCTANTCTCCAGGNAATGATGAA 385
QY 241 CCCTACACTGNGCAGATGGGCAACTGTGGCGAG 273
DB 386 CCCTACACTGAGCAGATGGGCAACTGTGGAGAG 418

RESULT 6
US-09-823-356-25
; Sequence 25, Application US/09823356
; Patent No. US20010025098A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Bandman, Olga
; APPLICANT: Lal, Preeti
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Yue, Henry
; APPLICANT: Corley, Neil C.
; APPLICANT: Guegler, Karl J.
; APPLICANT: Kaser, Matthew R.
; APPLICANT: Baughn, Mariah R.
; APPLICANT: Shah, Purvi
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS
; FILE REFERENCE: PF-0489-1 CON
; CURRENT APPLICATION NUMBER: US/09/823,356
; CURRENT FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/039,307
; PRIOR FILING DATE: 1998 March 13
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PERL Program
; SEQ ID NO 25
; LENGTH: 3111
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; FEATURE:
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775
US-09-823-356-25

Query Match
Best Local Similarity 97.9%; Score 267.4; DB 9; Length 3111;
Matches 268; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GTTGCAATCGACCCCAATGTGCGAAGATGAACACATCTATTCAACAAATAAAGGACATG 60
DB 142 GTTGCAATCGACCCCAATGTGCGAAGATGAACACATCTATTCAACAAATAAAGGACATG 201
QY 61 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAAGCGATTTTATTTCAAAAT 120
DB 202 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAAGCGATTTTATTTCAAAAT 261
QY 121 GTTGCCATTTTCAATCTCTGAAACATGGAAGACAAAGGNTGACTATGTGAGACCAAAACTT 180
DB 262 GTTGCCATTTTCAATCTCTGAAACATGGAAGACAAAGGNTGACTATGTGAGACCAAAACTT 321
QY 181 GAGACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTANTCTCCAGGNAATGATGAA 240
DB 322 GAGACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTANTCTCCAGGNAATGATGAA 381
QY 241 CCCTACACTGNGCAGATGGGCAACTGTGGCGAG 273
DB 382 CCCTACACTGAGCAGATGGGCAACTGTGGAGAG 414

RESULT 7
US-09-981-353-191
; Sequence 191, Application US/09981353
; Patent No. US20020160382A1
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GENERAL INFORMATION:  
; APPLICANT: Lasek, Amy W.  
; APPLICANT: Jones, David A.  
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
; FILE REFERENCE: PA-0038 US  
; CURRENT APPLICATION NUMBER: US/09/981,353  
; CURRENT FILING DATE: 2001-10-11  
; NUMBER OF SEQ ID NOS: 194  
; SOFTWARE: PERL Program  
; SEQ ID NO 191  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; NAME/KEY: misc\_feature  
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CB1  
US-09-981-953-191

Query Match 97.9%; Score 267.4; DB 9; Length 3111;  
Best Local Similarity 98.2%; Pred. No. 4.2e-72;  
Matches 268; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
QY 1 GTTGCAATCGACCCCAATGTGCCAGAGATGAACACATCTATTCAACAAATAAAGGACATG 60  
DB 142 GTTGCAATCGACCCCAATGTGCCAGAGATGAACACATCTATTCAACAAATAAAGGACATG 201  
QY 61 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGAAAGCGATTTTATTTCAAAAT 120  
DB 202 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGAAAGCGATTTTATTTCAAAAT 261  
QY 121 GTTGCAATTTGATCTCTGTATCTGTTGAAGCTACAGAAAGCGATTTTATTTCAAAAT 180  
DB 262 GTTGCAATTTGATCTCTGTATCTGTTGAAGCTACAGAAAGCGATTTTATTTCAAAAT 321  
QY 181 GAGACCTACAAATGCTGATGTTCTGTTGCTGAGTCTANTCTCCAGGNAATGATGAA 240  
DB 322 GAGACCTACAAATGCTGATGTTCTGTTGCTGAGTCTANTCTCCAGGNAATGATGAA 381  
QY 241 CCTACACTGNGCAGATGGGCAACTGTGGCGAG 273  
DB 382 CCTACACTGAGCAGATGGGCAACTGTGGAGAG 414

RESULT 8  
US-10-235-994-25  
; Sequence 25, Application US/10235994  
; Publication No. US20030101002A1  
; GENERAL INFORMATION:  
; APPLICANT: Bartha, Gabor  
; APPLICANT: Walker, Michael  
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS  
; FILE REFERENCE: ICYTP012  
; CURRENT APPLICATION NUMBER: US/10/235,994  
; CURRENT FILING DATE: 2002-09-04  
; PRIOR APPLICATION NUMBER: US/10/003,608  
; PRIOR FILING DATE: 2001-11-01  
; PRIOR APPLICATION NUMBER: 60/245,081  
; PRIOR FILING DATE: 2000-11-01  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 25  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Human  
US-10-235-994-25  
Query Match 97.9%; Score 267.4; DB 15; Length 3111;  
Best Local Similarity 98.2%; Pred. No. 4.2e-72;  
Matches 268; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
QY 1 GTTGCAATCGACCCCAATGTGCCAGAGATGAACACATCTATTCAACAAATAAAGGACATG 60  
DB 142 GTTGCAATCGACCCCAATGTGCCAGAGATGAACACATCTATTCAACAAATAAAGGACATG 201

QY 61 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGAAAGCGATTTTATTTCAAAAT 120  
DB 202 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGAAAGCGATTTTATTTCAAAAT 261  
QY 121 GTTGCAATTTGATCTCTGTATCTGTTGAAGCTACAGAAAGCGATTTTATTTCAAAAT 180  
DB 262 GTTGCAATTTGATCTCTGTATCTGTTGAAGCTACAGAAAGCGATTTTATTTCAAAAT 321  
QY 181 GAGACCTACAAATGCTGATGTTCTGTTGCTGAGTCTANTCTCCAGGNAATGATGAA 240  
DB 322 GAGACCTACAAATGCTGATGTTCTGTTGCTGAGTCTANTCTCCAGGNAATGATGAA 381  
QY 241 CCTACACTGNGCAGATGGGCAACTGTGGCGAG 273  
DB 382 CCTACACTGAGCAGATGGGCAACTGTGGAGAG 414

RESULT 9  
US-09-764-868-22  
; Sequence 22, Application US/09764868  
; Patent No. US20020168711A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PTZ32  
; CURRENT APPLICATION NUMBER: US/09/764,868  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 1510  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 22  
; LENGTH: 3267  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-764-868-22

Query Match 97.9%; Score 267.4; DB 9; Length 3267;  
Best Local Similarity 98.2%; Pred. No. 4.3e-72;  
Matches 268; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
QY 1 GTTGCAATCGACCCCAATGTGCCAGAGATGAACACATCTATTCAACAAATAAAGGACATG 60  
DB 143 GTTGCAATCGACCCCAATGTGCCAGAGATGAACACATCTATTCAACAAATAAAGGACATG 202  
QY 61 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGAAAGCGATTTTATTTCAAAAT 120  
DB 203 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGAAAGCGATTTTATTTCAAAAT 262  
QY 121 GTTGCAATTTGATCTCTGTATCTGTTGAAGCTACAGAAAGCGATTTTATTTCAAAAT 180  
DB 263 GTTGCAATTTGATCTCTGTATCTGTTGAAGCTACAGAAAGCGATTTTATTTCAAAAT 322  
QY 181 GAGACCTACAAATGCTGATGTTCTGTTGCTGAGTCTANTCTCCAGGNAATGATGAA 240  
DB 323 GAGACCTACAAATGCTGATGTTCTGTTGCTGAGTCTANTCTCCAGGNAATGATGAA 382  
QY 241 CCTACACTGNGCAGATGGGCAACTGTGGCGAG 273  
DB 383 CCTACACTGAGCAGATGGGCAACTGTGGAGAG 415

RESULT 10  
US-09-922-217-1056  
; Sequence 1056, Application US/09922217  
; Patent No. US20020076414A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.

```

; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1056
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-922-217-1056

Query Match          97.9%; Score 267.4; DB 9; Length 3311;
Best Local Similarity 98.2%; Pred. No. 4.4e-72;
Matches 268; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GTTGCAATCGACCCCAATGTCGAGAGATGGAACACTCATTCAACAAATAAGGACATG 60
DB 460 GTTGCAATCGACCCCAATGTCGAGAGATGGAACACTCATTCAACAAATAAGGACATG 519
QY 61 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAAAT 120
DB 520 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAAAT 579
QY 121 GTTGCCATTTTGAATCTCTGAAACATGGAACAAAGGNTGACTATGTGAGACCAAACTT 180
DB 520 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAAAT 579
QY 121 GTTGCCATTTTGAATCTCTGAAACATGGAACAAAGGNTGACTATGTGAGACCAAACTT 180
DB 520 GTTGCCATTTTGAATCTCTGAAACATGGAACAAAGGNTGACTATGTGAGACCAAACTT 180
QY 181 GAGACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTTANTCCTCCAGNATGATGAA 240
DB 640 GAGACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTTANTCCTCCAGNATGATGAA 240
QY 241 CCTACACTGNGCAGATGGGCAACTGTGGCGAG 273
DB 700 CCTACACTGAGCAGATGGGCAACTGTGGAGAG 732

RESULT 11
US-09-833-263-1056
; Sequence 1056, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Stolk, John A.
; APPLICANT: Meagher, Madeleine J.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; FILE REFERENCE: 210121.471C12
; CURRENT APPLICATION NUMBER: US/09/833,263
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1056
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-833-263-1056

Query Match          97.9%; Score 267.4; DB 9; Length 3311;
Best Local Similarity 98.2%; Pred. No. 4.4e-72;
Matches 268; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GTTGCAATCGACCCCAATGTCGAGAGATGGAACACTCATTCAACAAATAAGGACATG 60
DB 460 GTTGCAATCGACCCCAATGTCGAGAGATGGAACACTCATTCAACAAATAAGGACATG 519
QY 61 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAAAT 120
DB 520 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAAAT 579
QY 121 GTTGCCATTTTGAATCTCTGAAACATGGAACAAAGGNTGACTATGTGAGACCAAACTT 180
DB 520 GTTGCCATTTTGAATCTCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAAAT 579
QY 181 GAGACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTTANTCCTCCAGNATGATGAA 240
DB 640 GAGACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTTANTCCTCCAGNATGATGAA 240
QY 241 CCTACACTGNGCAGATGGGCAACTGTGGCGAG 273
DB 700 CCTACACTGAGCAGATGGGCAACTGTGGAGAG 732

RESULT 12
US-10-025-380-1056
; Sequence 1056, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick Thomas S.
; APPLICANT: Carter, Darick
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C14
; CURRENT APPLICATION NUMBER: US/10/025,380
; CURRENT FILING DATE: 2001-12-19
; NUMBER OF SEQ ID NOS: 1129
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1056
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-025-380-1056

Query Match          97.9%; Score 267.4; DB 14; Length 3311;
Best Local Similarity 98.2%; Pred. No. 4.4e-72;
Matches 268; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GTTGCAATCGACCCCAATGTCGAGAGATGGAACACTCATTCAACAAATAAGGACATG 60
DB 460 GTTGCAATCGACCCCAATGTCGAGAGATGGAACACTCATTCAACAAATAAGGACATG 519
QY 61 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAAAT 120
DB 520 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAAAT 579
QY 121 GTTGCCATTTTGAATCTCTGAAACATGGAACAAAGGNTGACTATGTGAGACCAAACTT 180
DB 580 GTTGCCATTTTGAATCTCTGAAACATGGAACAAAGGNTGACTATGTGAGACCAAACTT 639
QY 181 GAGACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTTANTCCTCCAGNATGATGAA 240
DB 640 GAGACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTTANTCCTCCAGNATGATGAA 240
QY 241 CCTACACTGNGCAGATGGGCAACTGTGGCGAG 273
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Db 700 CCTACACTGAGCAGATGGGCAACTGTGGAGAG 732
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RESULT 13
US-10-393-590-11
; Sequence 11, Application US/10393590
; Publication No. US20030190656A1
; GENERAL INFORMATION:
; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO
; FILE REFERENCE: CDS 268 US NP
; CURRENT APPLICATION NUMBER: US/10/393,590
; CURRENT FILING DATE: 2003-03-21
; PRIOR APPLICATION NUMBER: 60/368,789
; PRIOR FILING DATE: 2002-03-29
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: human
US-10-393-590-11
Query Match 97.9%; Score 267.4; DB 15; Length 3311;
Best Local Similarity 98.2%; Pred. No. 4.4e-72;
Matches 268; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 1 GTTGAATCGACCCCAATGTGCCAGAGATGAAACACTCATTCAACAAATAAAGGACATG 60
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Db 460 GTTGAATCGACCCCAATGTGCCAGAGATGAAACACTCATTCAACAAATAAAGGACATG 519
QY 61 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAAT 120
|||||
Db 520 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAAT 579
QY 121 GTTGCCATTTTGAATTCCTGAAACATGGAAGACAAAGGNTGACTATGTGAGACCAAAACTT 180
|||||
Db 580 GTTGCCATTTTGAATTCCTGAAACATGGAAGACAAAGGNTGACTATGTGAGACCAAAACTT 639
QY 181 GAGACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTTANTCTCCAGGNAATGATGAA 240
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Db 640 GAGACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTTANTCTCCAGGNAATGATGAA 699
QY 241 CCTACACTGNGCAGATGGGCAACTGTGGCGAG 273
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Db 700 CCTACACTGAGCAGATGGGCAACTGTGGAGAG 732
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RESULT 15
US-10-393-590-46
; Sequence 46, Application US/10393590
; Publication No. US20030190656A1
; GENERAL INFORMATION:
; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO
; FILE REFERENCE: CDS 268 US NP
; CURRENT APPLICATION NUMBER: US/10/393,590
; CURRENT FILING DATE: 2003-03-21
; PRIOR APPLICATION NUMBER: 60/368,789
; PRIOR FILING DATE: 2002-03-29
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 46
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: human
US-10-393-590-46
Query Match 97.9%; Score 267.4; DB 15; Length 3311;
Best Local Similarity 98.2%; Pred. No. 4.4e-72;
Matches 268; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 1 GTTGAATCGACCCCAATGTGCCAGAGATGAAACACTCATTCAACAAATAAAGGACATG 60
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Db 460 GTTGAATCGACCCCAATGTGCCAGAGATGAAACACTCATTCAACAAATAAAGGACATG 519
QY 61 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAAT 120
|||||
Db 520 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAAT 579
QY 121 GTTGCCATTTTGAATTCCTGAAACATGGAAGACAAAGGNTGACTATGTGAGACCAAAACTT 180
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Db 580 GTTGCCATTTTGAATTCCTGAAACATGGAAGACAAAGGNTGACTATGTGAGACCAAAACTT 639
QY 181 GAGACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTTANTCTCCAGGNAATGATGAA 240
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Db 640 GAGACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTTANTCTCCAGGNAATGATGAA 699
QY 241 CCTACACTGNGCAGATGGGCAACTGTGGCGAG 273
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Db 700 CCTACACTGAGCAGATGGGCAACTGTGGAGAG 732
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Query Match 97.9%; Score 267.4; DB 15; Length 3311;
Best Local Similarity 98.2%; Pred. No. 4.4e-72;
Matches 268; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

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Scoring table: IDENTITY NUC  
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Searched: 682709 seqs, 277475446 residues

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Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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4: /cgn2\_6/prodata/2/ina/6B COMB.seq.\*  
5: /cgn2\_6/prodata/2/ina/PCTUS COMB.seq.\*  
6: /cgn2\_6/prodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	267.4	97.9	2745	US-09-623-624-5	Sequence 5, Appli
2	267.4	97.9	3007	US-09-193-562D-27	Sequence 27, Appl
3	245.4	89.9	401	US-09-221-298-34	Sequence 34, Appl
4	245.4	89.9	401	US-09-401-064-34	Sequence 34, Appl
5	182.2	66.7	2931	US-09-623-624-1	Sequence 1, Appli
6	151.2	55.4	3043	US-09-049-698-16	Sequence 16, Appl
7	151.2	55.4	3181	US-09-049-698-18	Sequence 18, Appl
8	124.6	45.6	3317	US-09-193-562D-1	Sequence 1, Appli
9	119.8	43.9	3418	US-09-193-562D-29	Sequence 29, Appl
10	113.4	41.5	3022	US-09-193-562D-33	Sequence 33, Appl
11	91	33.3	232	US-09-016-434-290	Sequence 358, App
12	75.2	27.5	2773	US-09-643-597-358	Sequence 358, App
13	75.2	27.5	2784	US-09-643-597-168	Sequence 168, App
14	75.2	27.5	2784	US-09-480-884A-168	Sequence 168, App
15	75.2	27.5	2784	US-09-542-615A-168	Sequence 168, App
16	75.2	27.5	2784	US-09-606-421B-168	Sequence 168, App
17	75.2	27.5	2970	US-09-193-562D-31	Sequence 31, Appl
18	75.2	27.5	3156	US-09-919-172-86	Sequence 86, Appl
19	75.2	27.5	3190	US-09-623-624-3	Sequence 3, Appli
20	75.2	27.5	3362	US-09-643-597-167	Sequence 167, Appl
21	75.2	27.5	3362	US-09-480-884A-167	Sequence 167, App
22	75.2	27.5	3362	US-09-542-615A-167	Sequence 167, App
23	75.2	27.5	3362	US-09-606-421B-167	Sequence 167, App
24	75.2	27.5	3951	US-09-643-597-160	Sequence 160, App
25	75.2	27.5	3951	US-09-480-884A-160	Sequence 160, App
26	75.2	27.5	3951	US-09-542-615A-160	Sequence 160, App
27	75.2	27.5	3951	US-09-606-421B-160	Sequence 160, App

28	75.2	27.5	3951	4	US-09-221-107-160	Sequence 160, App
29	75.2	27.5	8031	4	US-09-643-597-254	Sequence 254, App
30	75.2	27.5	8031	4	US-09-480-884A-254	Sequence 254, App
31	75.2	27.5	8031	4	US-09-542-615A-254	Sequence 254, App
32	75.2	27.5	8031	4	US-09-606-421B-254	Sequence 254, App
33	71	26.0	241	4	US-09-049-698-1	Sequence 1, Appli
34	64.8	23.7	219	4	US-09-049-698-2	Sequence 2, Appli
35	33.6	12.3	1209	4	US-09-134-001C-1837	Sequence 1837, App
36	33	12.1	508	4	US-09-221-017B-151	Sequence 151, App
37	31.8	11.6	17656	4	US-09-433-579-3	Sequence 3, Appli
38	31.6	11.6	1071	4	US-09-107-532A-29	Sequence 29, Appli
39	31.6	11.6	2615	1	US-08-072-281-1	Sequence 1, Appli
40	31.6	11.6	2615	1	US-08-759-446-1	Sequence 1, Appli
41	31.6	11.6	2615	3	US-09-027-998A-1	Sequence 1, Appli
42	31.6	11.6	3050	2	US-09-031-442A-21	Sequence 21, Appli
43	31.6	11.6	3050	3	US-09-258-377-21	Sequence 21, Appli
44	31.2	11.4	1026	4	US-09-134-001C-1205	Sequence 1205, App
45	31.2	11.4	1664976	4	US-08-916-421B-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1  
US-09-623-624-5  
; Sequence 5, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patent in Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 2745  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1) .. (2742)  
US-09-623-624-5

Query Match 97.9%; Score 267.4; DB 4; Length 2745;  
Best Local Similarity 98.2%; Pred. No. 4.4e-73;  
Matches 268; Conservative 0; Mismatches 5; Indels 0; Gaps 0;





Db 120 TTGTTATAGATCTAGTGTGCCAGAAGATGAAAAATAATTGAACAAATAGAGGATATGG 179  
QY 62 TGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAAGCGATTATTTTCAAAAATG 121  
Db 180 TGACTACAGCTTCTAGTACCTGTTGAAGCCACAGAAAAAAGATTATTTTCAAAAATG 239  
QY 122 TTGCCATTTGATTCCTGAAACATGGAAGACAAAGGNTGACTATGTGAGACCAAAATTTG 181  
Db 240 TATCTATATTATCTGAGANTTGAAGGAAATCTCAGTACAAAAGGCCAAACATG 299  
QY 182 AGACTACAAAATGCTGATGTTCTGGTGTGAGTCTANTCTCCAGGNAATGATGAAC 241  
Db 300 AAAACCAATAAATGCTGATGTTATAGTTGCACCACTACACTCCAGGTAGAGATGAAC 359  
QY 242 CCTACACTGNGCAGATGGCACTCTGGCGAG 273  
Db 360 CATACACCAAGCAGTTCACAGAATGTGGAGAG 391

RESULT 7  
US-09-049-698-18  
; Sequence 18, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITTS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLASS, MICHAEL R.  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; TITLE OF INVENTION: TRACT  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park  
; STATE: IL  
; COUNTRY: USA  
; ZIP: 60064-3500  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/049,698  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/828,856  
; FILING DATE: 31-MAR-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Becker, Cheryl L.  
; REGISTRATION NUMBER: 35,441  
; REFERENCE/DOCKET NUMBER: 6068.US.P1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 847/935-1729  
; TELEFAX: 847/938-2623  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 18:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 3181 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-09-049-698-18

Query Match 55.4%; Score 151.2; DB 4; Length 3181;

Best Local Similarity 71.7%; Pred. No. 4.1e-37;  
Matches 195; Conservative 0; Mismatches 77; Indels 0; Gaps 0;  
QY 2 TTGCAATCGACCCCAATGTGCCAGAGATGAAACACTCATTCAACAAATAAAGGACATGG 61  
Db 131 TTGTTATAGATCTCTAGTGTGCCAGAAGATGAAAAATAATTGAACAAATAGAGGATATGG 190  
QY 62 TGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAAGCGATTATTTTCAAAAATG 121  
Db 191 TGACTACAGCTTCTAGTACCTGTTGAAGCCACAGAAAAAAGATTATTTTCAAAAATG 250  
QY 122 TTGCCATTTGATTCCTGAAACATGGAAGACAAAGGNTGACTATGTGAGACCAAAATTTG 181  
Db 251 TATCTATATTATTTCTGAGAATTTGGAAGGAAATCTCTCAGTACAAAAGGCCAAACATG 310  
QY 182 AGACTACAAAATGCTGATGTTCTGGTGTGAGTCTANTCTCCAGGNAATGATGAAC 241  
Db 311 AAAACCAATAAATGCTGATGTTATAGTTGCACCACTACACTCCAGGTAGAGATGAAC 370  
QY 242 CCTACACTGNGCAGATGGCACTCTGGCGAG 273  
Db 371 CATACACCAAGCAGTTCACAGAATGTGGAGAG 402

RESULT 8  
US-09-193-562D-1  
; Sequence 1, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 1  
; LENGTH: 3317  
; TYPE: DNA  
; ORGANISM: Unknown  
; FEATURE:  
; OTHER INFORMATION: sequence encoding Lu-ECAM-1 and Lu-ECAM-1 associated  
; OTHER INFORMATION: protein from bovine endothelial cells  
US-09-193-562D-1  
Query Match 45.6%; Score 124.6; DB 4; Length 3317;  
Best Local Similarity 65.7%; Pred. No. 7e-29;  
Matches 178; Conservative 0; Mismatches 93; Indels 0; Gaps 0;  
QY 2 TTGCAATCGACCCCAATGTGCCAGAGATGAAACACTCATTCAACAAATAAAGGACATGG 61  
Db 169 TTGCAATTAACCCAGTGTGCCAGAAGATGAAAAACTCATTTGAAAAACATAAAGGAATGG 228  
QY 62 TGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAAGCGATTATTTTCAAAAATG 121  
Db 229 TAACTGAAAGCTTCTACTTACCTGTTTCATGCCAACAAAGAGAGTTTATTTTCAAGATG 288  
QY 122 TTGCCATTTGATTCCTGAAACATGGAAGACAAAGGNTGACTATGTGAGACCAAAATTTG 181  
Db 289 TGAGCATTTTAAATCCCAATGACCTGGAAATCAAAATCTGAGTACTTCTATACCAACAAAG 348  
QY 182 AGACTACAAAATGCTGATGTTCTGGTGTGAGTCTANTCTCCAGGNAATGATGAAC 241  
Db 349 AATCATATGACCAAGCAGATGTCATAGTTGCTTAATCCCTATCCCTATCAAAAATATGGAGATGATC 408  
QY 242 CCTACACTGNGCAGATGGCACTCTGGCGAG 273  
Db 409 CCTATACACTTCAATATGAAAGGTGTGGAGA 439

RESULT 9



```
US-09-193-562D-29
; Sequence 29, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 29
; LENGTH: 3418
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-193-562D-29

Query Match 43.9%; Score 119.8; DB 4; Length 3418;
Best Local Similarity 64.6%; Pred. No. 2.2e-27;
Matches 175; Conservative 0; Mismatches 96; Indels 0; Gaps 0;

QY 2 TTGCAATGACCCCAATGTCAGAGATGAACACTTCAACAAATAAAGGACATGG 61
DB 125 TTGCAATTAATCCCAATGTCAGAGATGAACAACTCAATCAAAACATAAAGGAAATGG 184
QY 62 TGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAAATG 121
DB 185 TAACTGAAGCACTACTCACTGCTTTCATGCGACCAACAAAGAGCTTTATTCAGGAATG 244
QY 122 TTGCCATTTGATCTCTGAAACATGGAAGCAAAAGGNTGACTATGTGAGACCAAACTTG 181
DB 245 TAAAGCATTTTAATTCCAATGACTCAAAATCAAAATCTGAGTACTTAATCCCAAAACAG 304
QY 182 AGACTTACAAAATGCTGATGTTCTGGTTCGAGTCTANTCTCAGGNAATGATGAAC 241
DB 305 AAACATATGACAGGAGATGTCATAGTTGCTGATCTTTACCTGAAATACGGAGATGATC 364
QY 242 CCTACACTGNGCAGATGGGCAACTGTGGCGA 272
DB 365 CCTATACATTCATATGGACAATGTGGAGA 395

RESULT 10
US-09-193-562D-33
; Sequence 33, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 33
; LENGTH: 3022
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-193-562D-33

Query Match 41.5%; Score 113.4; DB 4; Length 3022;
Best Local Similarity 63.1%; Pred. No. 2e-25;
Matches 171; Conservative 0; Mismatches 100; Indels 0; Gaps 0;

QY 2 TTGCAATGACCCCAATGTCAGAGATGAACACTTCAACAAATAAAGGACATGG 61
DB 124 TTGCAATTAATCCCAATGTCAGAGATGAACAACTCAATCAAAACATAAAGGAAATGG 183
QY 62 TGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAAATG 121

US-09-016-434-290
; Sequence 290, Application US/09016434
; Patent No. 6500938
; GENERAL INFORMATION:
; APPLICANT: Janice Au-Young
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION
; NUMBER OF SEQUENCES: 1490
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/016,434
; FILING DATE: HERewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0002 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 290:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 232 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: COLNOT22
; CLONE: 173775
US-09-016-434-290

Query Match 33.3%; Score 91; DB 4; Length 232;
Best Local Similarity 100.0%; Pred. No. 5.9e-19;
Matches 91; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTTGCAATCGACCCCAATGTCAGAGATGAACAACTTCAACAAATAAAGGACATG 60
DB 142 GTTGCAATCGACCCCAATGTCAGAGATGAACAACTTCAACAAATAAAGGACATG 201
QY 61 GTGACCCAGGCATCTCTGTATCTGTTGAAG 91
```

|||||  
Db 202 GTGACCCAGGCATCTCTGTATCTGTTGAAG 232

## RESULT 12

US-09-643-597-358

; Sequence 358, Application US/09643597

; Patent No. 6426072

; GENERAL INFORMATION:

; APPLICANT: Wang, Tongtong

; APPLICANT: Fan, Liqun

; APPLICANT: Kalos, Michael D.

; APPLICANT: Bangur, Chaitanya S.

; APPLICANT: Hosken, Nancy

; APPLICANT: Fanger, Gary R.

; APPLICANT: Li, Samuel X.

; APPLICANT: Wang, Aijun

; APPLICANT: Skeiky, Yasir A.W.

; APPLICANT: Henderson, Robert A.

; APPLICANT: McNeill, Patricia D.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY

; FILE REFERENCE: 210121.455C11

; CURRENT APPLICATION NUMBER: US/09/643,597

; CURRENT FILING DATE: 2000-08-21

; NUMBER OF SEQ ID NOS: 369

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 358

; LENGTH: 2773

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-643-597-358

## Query Match

27.5%; Score 75.2; DB 4; Length 2773;

Best Local Similarity 57.1%; Pred. No. 1.2e-13;

Matches 153; Conservative 0; Mismatches 112; Indels 3; Gaps 1;

QY 2 TTGCAATCGACCCCAATGTGCCAGAGATGAACACTCATTTCAACAAATAAAGGACATGG 61

Db 68 TTGCAATTAATCCTCAGGTACTGTGAAATCAGAACCTCATCTCAACATTAAGGAATGA 127

QY 62 TGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAAATG 121

Db 128 TAACTGAAGCTTCATTTTACCTATTATGCTACCAAGAGAGAGTATTTTTCAGAAATA 187

QY 122 TTGCAATTTGATTCCTGAAATCGAAGCAAAAGTACTGTGAGACCAAACTGG 181

Db 188 TAAAGATTTTATACCTGCGCATGCGAAAGCTTAATAAAC---AGCAAAATAAAACAAG 244

QY 182 AGACCTACAAAATCTGTATCTGTTGCTGTGCTGTANTCTCCAGGNAATGATGAAC 241

Db 245 AATCATATGAAGAAGCAATGTCATAGTACTGTGATGGGGCACATGGAGATGATC 304

QY 242 CCTACACTGNGCAGATGGGCACTGTGG 269

Db 305 CATACACCTACAATACAGAGGGTGTGG 332

## RESULT 13

US-09-643-597-168

; Sequence 168, Application US/09643597

; Patent No. 6426072

; GENERAL INFORMATION:

; APPLICANT: Wang, Tongtong

; APPLICANT: Fan, Liqun

; APPLICANT: Kalos, Michael D.

; APPLICANT: Bangur, Chaitanya S.

; APPLICANT: Hosken, Nancy

; APPLICANT: Fanger, Gary R.

; APPLICANT: Li, Samuel X.

; APPLICANT: Wang, Aijun

; APPLICANT: Skeiky, Yasir A.W.

; APPLICANT: Henderson, Robert A.

; APPLICANT: McNeill, Patricia D.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY

; FILE REFERENCE: 210121.455C11

; CURRENT APPLICATION NUMBER: US/09/643,597

; CURRENT FILING DATE: 2000-08-21

; NUMBER OF SEQ ID NOS: 369

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 168

; LENGTH: 2784

; TYPE: DNA

; ORGANISM: Homo sapien

US-09-643-597-168

## Query Match

27.5%; Score 75.2; DB 4; Length 2784;

Best Local Similarity 57.1%; Pred. No. 1.2e-13;

Matches 153; Conservative 0; Mismatches 112; Indels 3; Gaps 1;

QY 2 TTGCAATCGACCCCAATGTGCCAGAGATGAACACTCATTTCAACAAATAAAGGACATGG 61

Db 210 TTGCAATTAATCCTCAGGTACTGTGAAATCAGAACCTCATCTCAACATTAAGGAATGA 269

QY 62 TGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAAATG 121

Db 270 TAACTGAAGCTTCATTTTACCTATTATGCTACCAAGAGAGAGTATTTTTCAGAAATA 329

QY 122 TTGCAATTTGATTCCTGAAATCGAAGCAAAAGTACTGTGAGACCAAACTGG 181

Db 330 TAAAGATTTTAAATACCTGCGCACATGGAAGCTTAATAAAC---AGCAAAATAAAACAAG 386

QY 182 AGACCTACAAAATCTGTATCTGTTGCTGTGCTGTANTCTCCAGGNAATGATGAAC 241

Db 387 AATCATATGAAGAAGCAAAATGTCATAGTACTGTGATGGGGCACATGGAGATGATC 446

QY 242 CCTACACTGNGCAGATGGGCACTGTGG 269

Db 447 CATACACCTACAATACAGAGGGTGTGG 474

## RESULT 14

US-09-480-884A-168

; Sequence 168, Application US/09480884A

; Patent No. 6482597

; GENERAL INFORMATION:

; APPLICANT: Wang, Tongtong

; APPLICANT: Fan, Liqun

; APPLICANT: Hosken, Nancy A.

; APPLICANT: Kalos, Michael D.

; APPLICANT: Fanger, Gary R.

; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY

; FILE REFERENCE: 210121.455C6

; CURRENT APPLICATION NUMBER: US/09/480,884A

; CURRENT FILING DATE: 2001-08-27

; NUMBER OF SEQ ID NOS: 330

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 168

; LENGTH: 2784

; TYPE: DNA

; ORGANISM: Homo sapien

US-09-480-884A-168

## Query Match

27.5%; Score 75.2; DB 4; Length 2784;

Best Local Similarity 57.1%; Pred. No. 1.2e-13;

Matches 153; Conservative 0; Mismatches 112; Indels 3; Gaps 1;

QY 2 TTGCAATCGACCCCAATGTGCCAGAGATGAACACTCATTTCAACAAATAAAGGACATGG 61

Db 210 TTGCAATTAATCCTCAGGTACTGTGAAATCAGAACCTCATCTCAACATTAAGGAATGA 269

QY 62 TGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAAATG 121

Db 270 TAACTGAAGCTTCATTTTACCTATTATGCTACCAAGAGAGAGTATTTTTCAGAAATA 329



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; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775  
US-09-823-356-8

Alignment Scores:  
Pred. No.: 2.59e-52 Length: 914  
Score: 465.00 Matches: 88  
Percent Similarity: 96.70% Conservative: 0  
Best Local Similarity: 96.70% Mismatches: 3  
Query Match: 98.73% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-2 (1-273) x US-09-823-356-8 (1-914)

QY 1 GTTGAATCGACCCCAATGTGCGAGAGATGAACACATCTTCAACAAATAAAGGACATG 60  
|||  
DB 37 ValAlaIleAspProAsnValProGluAspGluThrLeuIleGlnIleLysaspMet 56  
|||  
QY 61 GTGACCCAGGATCTCTGATCTGTTGAAGCTACAGAAAGCGATTTTATTTCAAAAT 120  
|||  
DB 57 ValThrGlnAlaSerLeuThrPheGluAlaThrGlyLysArgPheTyrPheLysaen 76  
|||  
QY 121 GTTGCCATTTGATTCCTGAAACATGGAAGCAAAAGGNTGACTATGTGAGCAAAACTT 180  
|||  
DB 77 ValAlaIleLeuIleProGluThrTrpLysThrLysAlaAspTyrValArgProLysleu 96  
|||  
QY 181 GAGACCTACAAATGCTGATGTTCTGCTGAGTCTANTCTCCAGGNAATGATGAA 240  
|||  
DB 97 GluThrTyrLysAsnAlaAspValLeuValAlaGluSerThrProProGlyAsnaspGlu 116  
|||  
QY 241 CCTACATGNGCAGATGGCGCACTGTGCGGAG 273  
|||  
DB 117 ProTyrThrGluGlnMetGlyAsnCysGlyGlu 127  
|||

## RESULT 2

US-09-922-217-1066  
; Sequence 1066, Application US/09922217  
; Patent No. US20020076414A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Smith, Carole Lynn  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSTICS  
; FILE REFERENCE: 210121.471C13  
; CURRENT APPLICATION NUMBER: US/09/922,217  
; CURRENT FILING DATE: 2001-08-03  
; NUMBER OF SEQ ID NOS: 1124  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1066  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-922-217-1066

Alignment Scores:  
Pred. No.: 2.59e-52 Length: 914  
Score: 465.00 Matches: 88  
Percent Similarity: 96.70% Conservative: 0  
Best Local Similarity: 96.70% Mismatches: 3

Query Match: 98.73% Indels: 0  
DB: 9 Gaps: 0  
US-09-049-696-2 (1-273) x US-09-922-217-1066 (1-914)  
QY 1 GTTGAATCGACCCCAATGTGCGAGAGATGAACACATCTTCAACAAATAAAGGACATG 60  
|||  
DB 37 ValAlaIleAspProAsnValProGluAspGluThrLeuIleGlnIleLysaspMet 56  
|||  
QY 61 GTGACCCAGGATCTCTGATCTGTTGAAGCTACAGAAAGCGATTTTATTTCAAAAT 120  
|||  
DB 57 ValThrGlnAlaSerLeuThrPheGluAlaThrGlyLysArgPheTyrPheLysaen 76  
|||  
QY 121 GTTGCCATTTGATTCCTGAAACATGGAAGCAAAAGGNTGACTATGTGAGCAAAACTT 180  
|||  
DB 77 ValAlaIleLeuIleProGluThrTrpLysThrLysAlaAspTyrValArgProLysleu 96  
|||  
QY 181 GAGACCTACAAATGCTGATGTTCTGCTGAGTCTANTCTCCAGGNAATGATGAA 240  
|||  
DB 97 GluThrTyrLysAsnAlaAspValLeuValAlaGluSerThrProProGlyAsnaspGlu 116  
|||  
QY 241 CCTACATGNGCAGATGGCGCACTGTGCGGAG 273  
|||  
DB 117 ProTyrThrGluGlnMetGlyAsnCysGlyGlu 127  
|||

## RESULT 3

US-09-833-263-1066  
; Sequence 1066, Application US/09833263  
; Patent No. US20020110547A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Stolk, John A.  
; APPLICANT: Meagher, Madeleine J.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND  
; FILE REFERENCE: 210121.471C12  
; CURRENT APPLICATION NUMBER: US/09/833,263  
; CURRENT FILING DATE: 2001-04-10  
; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 1066  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-833-263-1066

Alignment Scores:  
Pred. No.: 2.59e-52 Length: 914  
Score: 465.00 Matches: 88  
Percent Similarity: 96.70% Conservative: 0  
Best Local Similarity: 96.70% Mismatches: 3  
Query Match: 98.73% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-2 (1-273) x US-09-833-263-1066 (1-914)

QY 1 GTTGAATCGACCCCAATGTGCGAGAGATGAACACATCTTCAACAAATAAAGGACATG 60  
|||  
DB 37 ValAlaIleAspProAsnValProGluAspGluThrLeuIleGlnIleLysaspMet 56  
|||  
QY 61 GTGACCCAGGATCTCTGATCTGTTGAAGCTACAGAAAGCGATTTTATTTCAAAAT 120  
|||  
DB 57 ValThrGlnAlaSerLeuThrPheGluAlaThrGlyLysArgPheTyrPheLysaen 76  
|||  
QY 121 GTTGCCATTTGATTCCTGAAACATGGAAGCAAAAGGNTGACTATGTGAGCAAAACTT 180  
|||  
DB 77 ValAlaIleLeuIleProGluThrTrpLysThrLysAlaAspTyrValArgProLysleu 96  
|||  
QY 181 GAGACCTACAAATGCTGATGTTCTGCTGAGTCTANTCTCCAGGNAATGATGAA 240  
|||  
DB 97 GluThrTyrLysAsnAlaAspValLeuValAlaGluSerThrProProGlyAsnaspGlu 116  
|||

```
QY 241 CCTACTGNGCAGATGGCGCACTGTGGCGAG 273
Db 117 ProTyrThrGluGlnMetGlyAsnGlyGlu 127

RESULT 4
US-09-981-353-192
; Sequence 192, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
; APPLICANT: Lasek, Amy W.
; APPLICANT: Jones, David A.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US
; CURRENT APPLICATION NUMBER: US/09/981,353
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO 192
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CD1
US-09-981-353-192

Alignment Scores:
Pred. No.: 2,59e-52 Length: 914
Score: 465.00 Matches: 88
Percent Similarity: 96.70% Conservative: 0
Best Local Similarity: 96.70% Mismatches: 3
Query Match: 98.73% Indels: 0
DB: 9 Gaps: 0

US-09-049-696-2 (1-273) x US-09-981-353-192 (1-914)
QY 1 GTTGAATCGACCCCAATGTGCAGAGATGAACACTCATTCAACAAATAAGGACATG 60
Db 37 ValAlaIleAspProAsnValProGluAspGluThrLeuIleGlnIleLysAspMet 56
QY 61 GTGACCCAGCATCTGTATCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAAT 120
Db 57 ValThrGlnAlaSerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsn 76
QY 121 GTTGCCATTTGATTCCTGAAACATGGAAGCAAGGNTGACTATGTGAGACCAAACTT 180
Db 77 ValAlaIleLeuIleProGluThrTyrLysAlaAspTyrValArgProLysLeu 96
QY 181 GAGACTCAAAAATGCTGATGTTCTGGTGTGCTGAGTCTANTCTCCAGNAATGATGAA 240
Db 97 GluThrTyrLysAsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGlu 116
QY 241 CCTACTGNGCAGATGGCGCACTGTGGCGAG 273
Db 117 ProTyrThrGluGlnMetGlyAsnGlyGlu 127

RESULT 5
US-09-833-245-2054
; Sequence 2054, Application US/09833245
; Publication No. US2004001034A1
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF546PCT
; CURRENT APPLICATION NUMBER: US/09/833,245
; CURRENT FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229,358
; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256,931
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/199,384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 2267

US-09-049-696-2 (1-273) x US-09-833-245-2054 (1-914)
QY 1 GTTGAATCGACCCCAATGTGCAGAGATGAACACTCATTCAACAAATAAGGACATG 60
Db 37 ValAlaIleAspProAsnValProGluAspGluThrLeuIleGlnIleLysAspMet 56
QY 61 GTGACCCAGCATCTGTATCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAAT 120
Db 57 ValThrGlnAlaSerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsn 76
QY 121 GTTGCCATTTGATTCCTGAAACATGGAAGCAAGGNTGACTATGTGAGACCAAACTT 180
Db 77 ValAlaIleLeuIleProGluThrTyrLysAlaAspTyrValArgProLysLeu 96
QY 181 GAGACTCAAAAATGCTGATGTTCTGGTGTGCTGAGTCTANTCTCCAGNAATGATGAA 240
Db 97 GluThrTyrLysAsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGlu 116
QY 241 CCTACTGNGCAGATGGCGCACTGTGGCGAG 273
Db 117 ProTyrThrGluGlnMetGlyAsnGlyGlu 127

RESULT 6
US-10-025-380-1066
; Sequence 1066, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stoik, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick Thomas S.
; APPLICANT: Carter, Darrick
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C14
; CURRENT APPLICATION NUMBER: US/10/025,380
; CURRENT FILING DATE: 2001-12-19
; NUMBER OF SEQ ID NOS: 1129
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1066
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-025-380-1066

Alignment Scores:
Pred. No.: 2,59e-52 Length: 914
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; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2054
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-833-245-2054

Alignment Scores:
Pred. No.: 2,59e-52 Length: 914
Score: 465.00 Matches: 88
Percent Similarity: 96.70% Conservative: 0
Best Local Similarity: 96.70% Mismatches: 3
Query Match: 98.73% Indels: 0
DB: 11 Gaps: 0

US-09-049-696-2 (1-273) x US-09-833-245-2054 (1-914)
QY 1 GTTGAATCGACCCCAATGTGCAGAGATGAACACTCATTCAACAAATAAGGACATG 60
Db 37 ValAlaIleAspProAsnValProGluAspGluThrLeuIleGlnIleLysAspMet 56
QY 61 GTGACCCAGCATCTGTATCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAAT 120
Db 57 ValThrGlnAlaSerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsn 76
QY 121 GTTGCCATTTGATTCCTGAAACATGGAAGCAAGGNTGACTATGTGAGACCAAACTT 180
Db 77 ValAlaIleLeuIleProGluThrTyrLysAlaAspTyrValArgProLysLeu 96
QY 181 GAGACTCAAAAATGCTGATGTTCTGGTGTGCTGAGTCTANTCTCCAGNAATGATGAA 240
Db 97 GluThrTyrLysAsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGlu 116
QY 241 CCTACTGNGCAGATGGCGCACTGTGGCGAG 273
Db 117 ProTyrThrGluGlnMetGlyAsnGlyGlu 127

RESULT 6
US-10-025-380-1066
; Sequence 1066, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stoik, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick Thomas S.
; APPLICANT: Carter, Darrick
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C14
; CURRENT APPLICATION NUMBER: US/10/025,380
; CURRENT FILING DATE: 2001-12-19
; NUMBER OF SEQ ID NOS: 1129
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1066
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-025-380-1066

Alignment Scores:
Pred. No.: 2,59e-52 Length: 914
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Score: 465.00 Matches: 88  
Percent Similarity: 96.70% Conservative: 0  
Best Local Similarity: 96.70% Mismatches: 3  
Query Match: 98.73% Indels: 0  
DB: 13 Gaps: 0

US-09-049-696-2 (1-273) x US-10-025-380-1066 (1-914)

QY 1 GTTGAATCGACCCCAATGTGCGAAGATGAAACACTCATTCAACAATAAAGGACATG 60  
DB 37 ValAlaIleAspProAsnValProGluAspGluThrLeuIleGlnIleLysAspMet 56  
QY 61 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGAAAGCGATTTTATTTCAAAAT 120  
DB 57 ValThrGlnAlaSerLeuThrLeuPheGluAlaThrGlyLysArgPheThrPheLysAsn 76  
QY 121 GTTGCCATTTTTCCTGAAACATGGAAGCAAAAGGNTGACTATGTGAGACCAAACTT 180  
DB 77 ValAlaIleLeuIleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeu 96  
QY 181 GAGACCTACAAAATGCTGATCTTCTGTTGCTGCTGCTCTANTCTCCAGGNAATGATGAA 240  
DB 97 GluThrTyLysAsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGlu 116  
QY 241 CCTACTGNGCAGATGGCAACTCTGCGCAG 273  
DB 117 ProTyThrGluGlnMetGlyAsnCysGlyGlu 127

## RESULT 7

US-10-055-412B-28  
; Sequence 28, Application US/10055412B  
; Publication No. US20030059861A1  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 28  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-055-412B-28

Alignment Scores:  
Pred. No.: 2,598-52 Length: 914  
Score: 465.00 Matches: 88  
Percent Similarity: 96.70% Conservative: 0  
Best Local Similarity: 96.70% Mismatches: 3  
Query Match: 98.73% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-2 (1-273) x US-10-055-412B-28 (1-914)

QY 1 GTTGAATCGACCCCAATGTGCGAAGATGAAACACTCATTCAACAATAAAGGACATG 60  
DB 37 ValAlaIleAspProAsnValProGluAspGluThrLeuIleGlnIleLysAspMet 56  
QY 61 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGAAAGCGATTTTATTTCAAAAT 120  
DB 57 ValThrGlnAlaSerLeuThrLeuPheGluAlaThrGlyLysArgPheThrPheLysAsn 76  
QY 121 GTTGCCATTTTTCCTGAAACATGGAAGCAAAAGGNTGACTATGTGAGACCAAACTT 180  
DB 77 ValAlaIleLeuIleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeu 96  
QY 181 GAGACCTACAAAATGCTGATCTTCTGTTGCTGCTGCTANTCTCCAGGNAATGATGAA 240

DB 97 GluThrTyLysAsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGlu 116  
QY 241 CCTACTGNGCAGATGGCAACTGTGCGCAG 273  
DB 117 ProTyThrGluGlnMetGlyAsnCysGlyGlu 127

## RESULT 8

US-10-270-595-6  
; Sequence 6, Application US/10270595  
; Publication No. US20030078409A1  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders

; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; CURRENT FILING DATE: 2002-10-16  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-270-595-6

Alignment Scores:  
Pred. No.: 2,598-52 Length: 914  
Score: 465.00 Matches: 88  
Percent Similarity: 96.70% Conservative: 0  
Best Local Similarity: 96.70% Mismatches: 3  
Query Match: 98.73% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-2 (1-273) x US-10-270-595-6 (1-914)

QY 1 GTTGAATCGACCCCAATGTGCGAAGATGAAACACTCATTCAACAATAAAGGACATG 60  
DB 37 ValAlaIleAspProAsnValProGluAspGluThrLeuIleGlnIleLysAspMet 56  
QY 61 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGAAAGCGATTTTATTTCAAAAT 120  
DB 57 ValThrGlnAlaSerLeuThrLeuPheGluAlaThrGlyLysArgPheThrPheLysAsn 76  
QY 121 GTTGCCATTTTTCCTGAAACATGGAAGCAAAAGGNTGACTATGTGAGACCAAACTT 180  
DB 77 ValAlaIleLeuIleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeu 96  
QY 181 GAGACCTACAAAATGCTGATGTTCTGTTGCTGCTGCTANTCTCCAGGNAATGATGAA 240  
DB 97 GluThrTyLysAsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGlu 116



QY 241 CCTTACATGCGAGATGGCGCACTGTGCGGAG 273  
|||||  
Db 117 ProTyrThrGluGlnMetGlyAsnCysGlyGlu 127  
|||||

## RESULT 9

US-10-235-994-26  
; Sequence 26, Application US/10235994  
; Publication NO. US20030101002A1  
; GENERAL INFORMATION:  
; APPLICANT: Bartha, Gabor  
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS  
; FILE REFERENCE: ICYTP012  
; CURRENT APPLICATION NUMBER: US/10/235,994  
; PRIOR FILING DATE: 2002-09-04  
; PRIOR APPLICATION NUMBER: US/10/003,608  
; PRIOR FILING DATE: 2001-11-01  
; PRIOR APPLICATION NUMBER: 60/245,081  
; PRIOR FILING DATE: 2000-11-01  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 26  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Human  
US-10-235-994-26

Alignment Scores:  
Pred. No.: 2,59e-52 Length: 914  
Score: 465.00 Matches: 88  
Percent Similarity: 96.70% Conservative: 0  
Best Local Similarity: 96.70% Mismatches: 3  
Query Match: 98.73% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-2 (1-273) x US-10-235-994-26 (1-914)

QY 1 GTTGCAATCGACCCCAATGTGCAGAGATGAAACACTCATTCAACAAATAAAGGACATG 60  
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Db 37 ValAlaIleAspProAsnValProGluAspGluThrLeuIleGlnIleLysAspMet 56  
|||||  
QY 61 GTGACCCAGCATCTCTGTATCTGTTGAAGCTACAGGAAGCGATTATTTCAAAAT 120  
|||||  
Db 57 ValThrGlnAlaSerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsn 76  
|||||  
QY 121 GTTGCATTTTGCATCTCTGAAATCGAAGCAAGGNTGACTATCTGAGACCAAACTT 180  
|||||  
Db 77 ValAlaIleLeuIleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeu 96  
|||||  
QY 181 GAGACTCAAAAATGCTGATGTTCTGTTGCTGAGTCTANTCTCCAGNAATGATGAA 240  
|||||  
Db 97 GluThrTyrLysAsnAlaAspValLeuValAlaGluSerThrProGlyAsnAspGlu 116  
|||||  
QY 241 CCTTACATGCGAGATGGCGCACTGTGCGGAG 273  
|||||  
Db 117 ProTyrThrGluGlnMetGlyAsnCysGlyGlu 127  
|||||

## RESULT 10

US-10-060-255-42  
; Sequence 42, Application US/10060255  
; Publication NO. US20030113840A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 25 Human secreted proteins  
; FILE REFERENCE: PZ042P1  
; CURRENT APPLICATION NUMBER: US/10/060,255  
; PRIOR FILING DATE: 2002-02-01  
; PRIOR APPLICATION NUMBER: 09/781,417  
; PRIOR FILING DATE: 2001-02-13  
; PRIOR APPLICATION NUMBER: PCT/US00/22325  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: 60/149,182

; PRIOR FILING DATE: 1999-08-17  
; NUMBER OF SEQ ID NOS: 86  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 42  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-060-255-42

Alignment Scores:  
Pred. No.: 2,59e-52 Length: 914  
Score: 465.00 Matches: 88  
Percent Similarity: 96.70% Conservative: 0  
Best Local Similarity: 96.70% Mismatches: 3  
Query Match: 98.73% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-2 (1-273) x US-10-060-255-42 (1-914)

QY 1 GTTGCAATCGACCCCAATGTGCAGAGATGAAACACTCATTCAACAAATAAAGGACATG 60  
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Db 37 ValAlaIleAspProAsnValProGluAspGluThrLeuIleGlnIleLysAspMet 56  
|||||  
QY 61 GTGACCCAGCATCTCTGTATCTGTTGAAGCTACAGGAAGCGATTATTTCAAAAT 120  
|||||  
Db 57 ValThrGlnAlaSerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsn 76  
|||||  
QY 121 GTTGCATTTTGCATCTCTGAAATCGAAGCAAGGNTGACTATCTGAGACCAAACTT 180  
|||||  
Db 77 ValAlaIleLeuIleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeu 96  
|||||  
QY 181 GAGACTCAAAAATGCTGATGTTCTGTTGCTGAGTCTANTCTCCAGNAATGATGAA 240  
|||||  
Db 97 GluThrTyrLysAsnAlaAspValLeuValAlaGluSerThrProGlyAsnAspGlu 116  
|||||  
QY 241 CCTTACATGCGAGATGGCGCACTGTGCGGAG 273  
|||||  
Db 117 ProTyrThrGluGlnMetGlyAsnCysGlyGlu 127  
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## RESULT 11

US-10-369-214-133  
; Sequence 133, Application US/10369214  
; Publication NO. US20030232037A1  
; GENERAL INFORMATION:  
; APPLICANT: Groot, Pieter C.  
; APPLICANT: Berghenhouwen van, Bram J.  
; APPLICANT: Oosterhout van, Antoon J.M.  
; TITLE OF INVENTION: Genes involved in immune related responses observed  
; TITLE OF INVENTION: with asthma  
; FILE REFERENCE: P53837US00  
; CURRENT APPLICATION NUMBER: US/10/369,214  
; PRIOR FILING DATE: 2003-02-15  
; PRIOR APPLICATION NUMBER: EP 00202867.8  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: PCT/NL01/00610  
; PRIOR FILING DATE: 2001-08-16  
; NUMBER OF SEQ ID NOS: 139  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 133  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (1)..(914)  
; OTHER INFORMATION: /note="Human CLC1"  
US-10-369-214-133

Alignment Scores:  
Pred. No.: 2,59e-52 Length: 914  
Score: 465.00 Matches: 88  
Percent Similarity: 96.70% Conservative: 0  
Best Local Similarity: 96.70% Mismatches: 3

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Query Match: 98.73% Indels: 0
DB: 15 Gaps: 0
US-09-049-696-2 (1-273) x US-10-369-214-133 (1-914)
QY 1 GTTGAATCGACCCCAATGTCGAGAGATGAACACTATTCAACAAATAAGGACATG 60
DB 37 ValAlaIleAspProAsnValProGluAspGluThrLeuIleGlnIleLysAspMet 56
QY 61 GTGACCCAGGCATCTCTGATCTGTTGAAGCTACAGGAACCGATTTTATTTCAAAAAT 120
DB 57 ValThrGlnAlaSerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsn 76
QY 121 GTTGCCATTTTCATTCCTGAACATGGAAGCAAGAGNTGACTATGTGAGACCAAACTT 180
DB 77 ValAlaIleLeuIleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeu 96
QY 181 GAGACCTACAAAATGCTGATGTTCTGCTGAGTCTANTCTCCAGGNAATGATGAA 240
DB 97 GluThrTyrLysAsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGlu 116
QY 241 CCCTACATGNCAGATGGGCAACTGTGGCGAG 273
DB 117 ProTyrThrGluGlnMetGlyAsnCysGlyGlu 127
RESULT 12
US-09-764-868-635
; Sequence 635, Application US/09764868
; Patent No. US20020168711A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT232
; CURRENT APPLICATION NUMBER: US/09/764,868
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1510
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 635
; LENGTH: 925
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-764-868-635
Alignment Scores:
Pred. No.: 2,66-52 Length: 925
Score: 465.00 Matches: 88
Percent Similarity: 96.70% Conservative: 0
Best Local Similarity: 96.70% Mismatches: 3
Query Match: 98.73% Indels: 0
DB: 9 Gaps: 0
US-09-049-696-2 (1-273) x US-09-764-868-635 (1-925)
QY 1 GTTGAATCGACCCCAATGTCGAGAGATGAACACTATTCAACAAATAAGGACATG 60
DB 48 ValAlaIleAspProAsnValProGluAspGluThrLeuIleGlnIleLysAspMet 67
QY 61 GTGACCCAGGCATCTCTGATCTGTTGAAGCTACAGGAACCGATTTTATTTCAAAAAT 120
DB 68 ValThrGlnAlaSerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsn 87
QY 121 GTTGCCATTTTCATTCCTGAACATGGAAGCAAGAGNTGACTATGTGAGACCAAACTT 180
DB 88 ValAlaIleLeuIleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeu 107
QY 181 GAGACCTACAAAATGCTGATGTTCTGCTGAGTCTANTCTCCAGGNAATGATGAA 240
DB 108 GluThrTyrLysAsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGlu 127
QY 241 CCCTACATGNCAGATGGGCAACTGTGGCGAG 273
DB 128 ProTyrThrGluGlnMetGlyAsnCysGlyGlu 138
RESULT 14
US-10-270-595-2
; Sequence 2, Application US/10270595
; Publication No. US20030078409A1
; GENERAL INFORMATION:
; APPLICANT: Magainin Pharmaceuticals, Inc.
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/10/270,595
; CURRENT FILING DATE: 2002-10-16
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1510
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 635
; LENGTH: 925
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-270-595-2
Alignment Scores:
Pred. No.: 2,66-52 Length: 925
Score: 465.00 Matches: 88
Percent Similarity: 96.70% Conservative: 0
Best Local Similarity: 96.70% Mismatches: 3
Query Match: 98.73% Indels: 0
DB: 9 Gaps: 0
US-09-049-696-2 (1-273) x US-10-106-698-6248 (1-925)
QY 1 GTTGAATCGACCCCAATGTCGAGAGATGAACACTATTCAACAAATAAGGACATG 60
DB 48 ValAlaIleAspProAsnValProGluAspGluThrLeuIleGlnIleLysAspMet 67
QY 61 GTGACCCAGGCATCTCTGATCTGTTGAAGCTACAGGAACCGATTTTATTTCAAAAAT 120
DB 68 ValThrGlnAlaSerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsn 87
QY 121 GTTGCCATTTTCATTCCTGAACATGGAAGCAAGAGNTGACTATGTGAGACCAAACTT 180
DB 88 ValAlaIleLeuIleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeu 107
QY 181 GAGACCTACAAAATGCTGATGTTCTGCTGAGTCTANTCTCCAGGNAATGATGAA 240
DB 108 GluThrTyrLysAsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGlu 127
QY 241 CCCTACATGNCAGATGGGCAACTGTGGCGAG 273
DB 128 ProTyrThrGluGlnMetGlyAsnCysGlyGlu 138
RESULT 13
US-10-106-698-6248
; Sequence 6248, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides
; FILE REFERENCE: PA005P1
; CURRENT APPLICATION NUMBER: US/10/106,698
; CURRENT FILING DATE: 2002-03-27
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 6248
; LENGTH: 925
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-106-698-6248
Alignment Scores:
Pred. No.: 2,66-52 Length: 925
Score: 465.00 Matches: 88
Percent Similarity: 96.70% Conservative: 0
Best Local Similarity: 96.70% Mismatches: 3
Query Match: 98.73% Indels: 0
DB: 14 Gaps: 0
US-09-049-696-2 (1-273) x US-10-106-698-6248 (1-925)
QY 1 GTTGAATCGACCCCAATGTCGAGAGATGAACACTATTCAACAAATAAGGACATG 60
DB 48 ValAlaIleAspProAsnValProGluAspGluThrLeuIleGlnIleLysAspMet 67
QY 61 GTGACCCAGGCATCTCTGATCTGTTGAAGCTACAGGAACCGATTTTATTTCAAAAAT 120
DB 68 ValThrGlnAlaSerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsn 87
QY 121 GTTGCCATTTTCATTCCTGAACATGGAAGCAAGAGNTGACTATGTGAGACCAAACTT 180
DB 88 ValAlaIleLeuIleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeu 107
QY 181 GAGACCTACAAAATGCTGATGTTCTGCTGAGTCTANTCTCCAGGNAATGATGAA 240
DB 108 GluThrTyrLysAsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGlu 127
QY 241 CCCTACATGNCAGATGGGCAACTGTGGCGAG 273
DB 128 ProTyrThrGluGlnMetGlyAsnCysGlyGlu 138
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; LENGTH: 913
; TYPE: PRT
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1)..(913)
; OTHER INFORMATION: /note="Calcium-activated chloride channels Gob-5"
US-10-369-214-132

Alignment Scores:
Pred. No.: 7,2e-40 Length: 913
Score: 371.00 Matches: 70
Percent Similarity: 85.71% Conservative: 8
Best Local Similarity: 76.92% Mismatches: 13
Query Match: 78.77% Indels: 0
DB: 15 Gaps: 0

US-09-049-696-2 (1-273) x US-10-369-214-132 (1-913)

Qy 1 GTTGCAATCGACCCCAATGTGCCAGAGATGAACACCTCATTTCAACAAATAAAGCATG 60
   ::::::::::::::::::::
Db 37 IleAlalleAspHisAspValProGluAspGluAlaLeuIleGlnHisIleLysAspMet 56

Qy 61 GTGACCAGGCATCTCTGTATCTGTTTCAAGCTACAGAAAGCGATTTTATTTCAAAAT 120
   ::::::::::::::::::::
Db 57 ValThrGlnAlaSerProTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsn 76

Qy 121 GTTGCCATTTTGATTCCTGAAACATGGAAGACAAAGNGTGACTATGTGAGACCAAACTT 180
   ::::::::::::::::::::
Db 77 ValAlalleLeuIleProGluSerTrpLysAlaLysProGluTyrThrArgProLysLeu 96

Qy 181 GAGACTACAAAATGCTGATGTCTGTGTTCTCGTGAAGTCTANTCTCCAGGNAATGATGAA 240
   ::::::::::::::::::::
Db 97 GluThrPheLysAsnAlaAspValLeuValSerThrThrSerProLeuGluGlyAsnAspGlu 116

Qy 241 CCTCACTGNGCAGATGGCAACTGTGTGGCGAG 273
   ::::::::::
Db 117 ProTyrThrGluHisIleGlyAlaCysGlyGlu 127

Search completed: April 21, 2004, 16:38:25
Job time : 42.304 secs

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*This Page Blank (uspto)*

GenCore version 5.1.6  
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OM nucleic - protein search, using frame\_plus\_n2p model

Run on: April 21, 2004, 16:13:29 ; Search time 13.931 Seconds  
(without alignments)  
2023.381 Million cell updates/sec

Title: US-09-049-696-2  
Perfect score: 471  
Sequence: 1 GTTGAATGACCCCAATGT.....AGATGGCAACTGTGGCGAG 273

Scoring table: BLOSUM62  
Xgapop 10.0 , Xgapext 0.5  
Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 389414 seqs, 51625971 residues  
Total number of hits satisfying chosen parameters: 778828

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Command line parameters: -DEV=xlp  
-MODEL=frame+n2p.model -DEV=xlp  
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-DB=Issued Patents AA -QFMT=fastan -SUFFIX=n2p.ra -MINMATCH=0.1 -LOOPCL=0  
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi  
-LIST=45 -DOALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15  
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0 -MAXLEN=2000000000  
-USER=US09049696 @CGN 1 1 321 @runat\_21042004\_154838\_21255 -NCPU=6 -ICPU=3  
-NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPLOCK=100 -LONGLOG  
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued Patents AA:\*  
1: /cgn2\_6/ptodata/2/iaa/5A COMB.pcp:\*  
2: /cgn2\_6/ptodata/2/iaa/5B COMB.pcp:\*  
3: /cgn2\_6/ptodata/2/iaa/6A COMB.pcp:\*  
4: /cgn2\_6/ptodata/2/iaa/6B COMB.pcp:\*  
5: /cgn2\_6/ptodata/2/iaa/PTUS COMB.pcp:\*  
6: /cgn2\_6/ptodata/2/iaa/backfiles1.pcp:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	465	98.7	914	4	US-09-193-562D-28
2	465	98.7	914	4	US-09-623-624-6
3	371	78.8	913	4	US-09-623-624-2
4	314	66.7	917	4	US-09-049-698-41
5	292	62.0	903	4	US-09-193-562D-46
6	292	62.0	903	4	US-09-623-624-18
7	288	61.1	342	4	US-09-193-562D-13
8	288	61.1	795	4	US-09-193-562D-11
9	288	61.1	821	4	US-09-193-562D-12
10	288	61.1	905	4	US-09-193-562D-2
11	287	60.9	902	4	US-09-193-562D-34
12	282	59.9	1000	4	US-09-193-562D-30

13	223.5	47.5	592	4	US-09-643-597-159	Sequence 169, App
14	223.5	47.5	592	4	US-09-480-884A-169	Sequence 169, App
15	223.5	47.5	592	4	US-09-542-615A-169	Sequence 169, App
16	223.5	47.5	592	4	US-09-606-421B-169	Sequence 169, App
17	223.5	47.5	791	4	US-09-643-597-170	Sequence 170, App
18	223.5	47.5	791	4	US-09-480-884A-170	Sequence 170, App
19	223.5	47.5	791	4	US-09-542-615A-170	Sequence 170, App
20	223.5	47.5	791	4	US-09-606-421B-170	Sequence 170, App
21	223.5	47.5	920	4	US-09-643-597-357	Sequence 357, App
22	223.5	47.5	942	4	US-09-919-172-87	Sequence 87, Appl
23	223.5	47.5	943	4	US-09-193-562D-32	Sequence 32, Appl
24	223.5	47.5	943	4	US-09-643-597-161	Sequence 161, App
25	223.5	47.5	943	4	US-09-480-884A-161	Sequence 161, App
26	223.5	47.5	943	4	US-09-542-615A-161	Sequence 161, App
27	223.5	47.5	943	4	US-09-606-421B-161	Sequence 161, App
28	223.5	47.5	943	4	US-09-623-624-4	Sequence 4, Appli
29	223.5	47.5	943	4	US-09-221-107-161	Sequence 161, App
30	65	13.8	81	3	US-09-129-030-42	Sequence 42, Appl
31	64.5	13.7	313	4	US-09-071-035-180	Sequence 180, App
32	64.5	13.7	335	4	US-09-071-035-178	Sequence 178, App
33	64.5	13.7	613	3	US-09-446-504-5	Sequence 5, Appli
34	64.5	13.7	613	4	US-09-712-266-5	Sequence 2, Appli
35	64.5	13.7	613	4	US-09-091-889A-2	Sequence 4172, Ap
36	63	13.4	202	4	US-09-134-000C-4172	Sequence 4172, Ap
37	62.5	12.7	395	4	US-09-543-681A-6203	Sequence 6203, Ap
38	62.5	13.3	479	4	US-08-985-343-4	Sequence 4, Appli
39	62	12.6	153	1	US-08-050-319B-52	Sequence 52, Appl
40	62	12.6	153	2	US-08-465-982-52	Sequence 52, Appl
41	62	12.6	153	2	US-08-219-237B-4	Sequence 4, Appli
42	62	12.6	153	3	US-08-477-347-12	Sequence 12, Appl
43	62	12.6	153	3	US-08-476-862-3	Sequence 3, Appli
44	62	12.6	153	3	US-08-468-560C-4	Sequence 4, Appli
45	62	12.6	153	4	US-09-800-909-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1  
US-09-193-562D-28  
; Sequence 28, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedict U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 28  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-193-562D-28

Alignment Scores:  
Pred. No.: 3 05e-57 Length: 914  
Score: 465.00 Matches: 88  
Percent Similarity: 96.70% Conservative: 0  
Best Local Similarity: 96.70% Mismatches: 3  
Query Match: 96.73% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-2 (1-273) x US-09-193-562D-28 (1-914)

QY 1 GTTGAATGACCCCAATGTGCCAGAAGATGAACACTCATTCAACAAATAAGGACATG 60  
Db 37 ValAlaIleAspProAsnValProGluAspGluThrLeuIleGlnGlnIleLysAspMet 56  
QY 61 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAGCGATTTTATTTCATAAAT 120

Db 57 ValThrGlnAlaSerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsn 76  
QY 121 GTTGCATTTGATTCCTGAACATGGAAGCAAGGNTGACTATGTGAGACCAAACTT 180  
Db 77 ValAlaIleLeuLeuProGluThrTrpLysAlaAspTyrValArgProLysLeu 96  
QY 181 GAGACCTACAAAATGCTGATGTTCTGCTGCTGAGTCTANTCCTCCAGGNAATGATGAA 240  
Db 97 GluThrTyrLysAsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGlu 116  
QY 241 CCTACACTGNGCAGATGGCAACTGTGCGGAG 273  
Db 117 ProTyrThrGluGlnMetGlyAsnCysGlyGlu 127

## RESULT 2

US-09-623-624-6  
; Sequence 6, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patent in Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-623-624-6

Alignment Scores:  
Pred. No.: 3,05e-57 Length: 914  
Score: 465.00 Matches: 88  
Percent Similarity: 96.70% Conservative: 0  
Best Local Similarity: 96.70% Mismatches: 3  
Query Match: 98.73% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-2 (1-273) x US-09-623-624-6 (1-914)

QY 1 GTTGCATTCGACCCCAATGTCGAGAGATGAACACTTCACTTCAACAAATAAGGACATG 60  
Db 37 ValAlaIleAspProAsnValProGluAspGluThrLeuIleGlnIleLysAspMet 56  
QY 61 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAAGCGATTTTATTTCAAAAAT 120

Db 57 ValThrGlnAlaSerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsn 76  
QY 121 GTTGCATTTGATTCCTGAACATGGAAGCAAGGNTGACTATGTGAGACCAAACTT 180  
Db 77 ValAlaIleLeuLeuProGluThrTrpLysAlaAspTyrValArgProLysLeu 96  
QY 181 GAGACCTACAAAATGCTGATGTTCTGCTGCTGAGTCTANTCCTCCAGGNAATGATGAA 240  
Db 97 GluThrTyrLysAsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGlu 116  
QY 241 CCTACACTGNGCAGATGGCAACTGTGCGGAG 273  
Db 117 ProTyrThrGluGlnMetGlyAsnCysGlyGlu 127

## RESULT 3

US-09-623-624-2  
; Sequence 2, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patent in Ver. 2.0  
; SEQ ID NO 2  
; LENGTH: 913  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-09-623-624-2

Alignment Scores:  
Pred. No.: 7,04e-44 Length: 913  
Score: 371.00 Matches: 70  
Percent Similarity: 85.71% Conservative: 8  
Best Local Similarity: 76.92% Mismatches: 13  
Query Match: 78.77% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-2 (1-273) x US-09-623-624-2 (1-913)

QY 1 GTTGCATTCGACCCCAATGTCGAGAGATGAACACTTCACTTCAACAAATAAGGACATG 60  
Db 37 ValAlaIleAspProAsnValProGluAspGluThrLeuIleGlnIleLysAspMet 56

QY 61 GTGACCCAGGCACTCTGTATCTGTTGAAGCTACAGGAAGCGATTTATTTCAAAAT 120  
Db 57 ValThrGlnAlaSerProTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsn 76  
QY 121 GTTGCCATTTGATCTCAAAATGGAAGCAAGGNTGACTATGTGAGACCAAACTT 180  
Db 77 ValAlaLeuLeuLeuProGluSerTrpLysAlaLysProGluTyrThrArgProLysLeu 96  
QY 181 GAGACCTACAAAATGCTGATGTTCTGGTTGCTGAGTCTTANTCTCCAGGNAATGATGAA 240  
Db 97 GluThrPheLysAsnAlaAspValLeuValSerThrThrSerProLeuGlyAsnAspGlu 116  
QY 241 CCCTACACTGNCAGATGGGCAACTGTGGCGAG 273  
Db 117 ProTyrThrGluHisIleGlyAlaCysGlyGlu 127

## RESULT 4

US-09-049-698-41

; Sequence 41, Application US/09049698

; Patent No. 6368792

; GENERAL INFORMATION:

; APPLICANT: BILLING-MEDEL, PATRICIA A.

; APPLICANT: COHEN, MAURICE

; APPLICANT: COLPITTS, TRACEY L.

; APPLICANT: FRIEDMAN, MARK

; APPLICANT: KLASS, MICHAEL R.

; APPLICANT: ROBERTS-RAPP, LISA

; APPLICANT: RUSSELL, JOHN C.

; APPLICANT: STROUPE, STEPHEN D.

; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE

; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL

; TITLE OF INVENTION: TRACT

; NUMBER OF SEQUENCES: 51

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Abbott Laboratories

; STREET: 100 Abbott Park Road

; CITY: Abbott Park

; STATE: IL

; COUNTRY: USA

; ZIP: 60064-3500

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: DOS

; SOFTWARE: FastSeq for Windows Version 2.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/049,698

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/828,856

; FILING DATE: 31-MAR-1997

; ATTORNEY/AGENT INFORMATION:

; NAME: Becker, Cheryl L.

; REGISTRATION NUMBER: 35,441

; REFERENCE/DOCKET NUMBER: 6068.US.P1

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 847/935-1729

; TELEFAX: 847/938-2623

; TELEX:

; INFORMATION FOR SEQ ID NO: 41:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 917 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: No. 6368792e

US-09-049-698-41

Alignment Scores:

Pred. No.:

Score:

8.95e-36

314.00

Length:

Matches:

917

59

Percent Similarity: 75.82% Conservative: 10  
Best Local Similarity: 64.84% Mismatches: 22  
Query Match: 66.67% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-2 (1-273) x US-09-049-698-41 (1-917)

QY 1 GTTGAATCGACCCCAATGTGCCAGAAGATGAACACATCTATTCAACAAATAAAGGACATG 60

Db 36 IleValIleAspProSerValProGluAspGluLysIleIleGluGlnIleGluAspMet 55

QY 61 GTGACCCAGGCACTCTGTATCTGTTGAAGCTACAGGAAGCGATTTATTTCAAAAT 120

Db 56 ValThrThrAlaSerThrTyrLeuPheGluAlaThrGluLysArgPhePheLysAsn 75

QY 121 GTTGCCATTTGATCTCAAAATGGAAGCAAGGNTGACTATGTGAGACCAAACTT 180

Db 76 ValSerIleLeuIleProGluAsnTrpLysGluAsnProGlnTyrLysArgProLysHis 95

QY 181 GAGACCTACAAAATGCTGATGTTCTGGTTGCTGAGTCTTANTCTCCAGGNAATGATGAA 240

Db 96 GluAsnHisLysHisAlaAspValIleValAlaProProThrLeuProGlyArgAspGlu 115

QY 241 CCCTACACTGNCAGATGGGCAACTGTGGCGAG 273

Db 116 ProTyrThrLysGlnPheThrGluCysGlyGlu 126

## RESULT 5

US-09-193-562D-46

; Sequence 46, Application US/09193562D

; Patent No. 6309857

; GENERAL INFORMATION:

; APPLICANT: Pauli, Benedicht U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules

; FILE REFERENCE: 18617.0052

; CURRENT APPLICATION NUMBER: US/09/193,562D

; PRIOR FILING DATE: 1998-11-17

; PRIOR APPLICATION NUMBER: US/60/065,922

; PRIOR FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 46

; LENGTH: 903

; TYPE: PRT

; ORGANISM: Unknown

; FEATURE:

; OTHER INFORMATION: Calcium sensitive chloride channel from bovine tracheal

; OTHER INFORMATION: epithelium (Cunningham et al., 1995, J. Biol. Chem., 270:31016-

; OTHER INFORMATION: 31026)

US-09-193-562D-46

Alignment Scores:

Pred. No.:

Score:

1.19e-32

Length:

903

Matches:

54

Conservative:

15

Mismatches:

22

Indels:

0

Gaps:

0

DB:

4

US-09-049-696-2 (1-273) x US-09-193-562D-46 (1-903)

QY 1 GTTGAATCGACCCCAATGTGCCAGAAGATGAACACATCTATTCAACAAATAAAGGACATG 60

Db 36 IleAlaIleAsnProSerValProGluAspGluLysLeuIleGlnAsnIleLysGluMet 55

QY 61 GTGACCCAGGCACTCTGTATCTGTTGAAGCTACAGGAAGCGATTTATTTCAAAAT 120

Db 56 ValThrGluAlaSerThrTyrLeuPheHisAlaThrLysArgArgValTyrPheArgAsn 75

QY 121 GTTGCCATTTGATCTCAAAATGGAAGCAAGGNTGACTATGTGAGACCAAACTT 180

Db 76 ValSerIleLeuIleProMetThrTrpLysSerLysSerGluTyrLeuMetProLysGln 95





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; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 11
; LENGTH: 795
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-11

Alignment Scores:
Pred. No.: 4.24e-32 Length: 795
Score: 288.00 Matches: 54
Percent Similarity: 74.73% Conservative: 14
Best Local Similarity: 59.34% Mismatches: 23
Query Match: 61.15% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-2 (1-273) x US-09-193-562D-11 (1-795)

QY 1 GTTGCAATCGACCCCAATGTGCAGAGATGAACACTATTCAACAAATAAAGGACATG 60
   ::::::::::::::::::::
Db 36 IleAlaIleAsnProSerValProGluAspGluLysLeuIleGluAsnIleLysGluMet 55
   ::::::::::::::::::::
QY 61 GTGACCCAGGCATCTCTGTATCTGTGTTGAAGCTACAGGAAAGCGATTTTATTTCAAAAAT 120
   ::::::::::::::::::::
Db 56 ValThrGluAlaSerThrTyrLeuPheHisAlaThrLysArgValTyrPheArgAsn 75
   ::::::::::::::::::::
QY 121 GTTGCCATTTTGTATCTCTGAAACATGGAAGCAAGAGTGTGAGACCAAACTT 180
   ::::::::::::::::::::
Db 76 ValSerIleLeuIleProMetThrTyrLysSerLysSerGluTyrPheIleProLysGln 95
   ::::::::::::::::::::
QY 181 GAGACCTACAAAATGCTGATGTTCTGGTGTCTGAGTCTTANTCCTCCAGNAATGATGAA 240
   ::::::::::::::::::::
Db 96 GluSerTyrAspGlnAlaAspValIleValAlaAsnProTyrLeuLysTyrGlyAspAsp 115
   ::::::::::::::::::::
QY 241 CCTACACTGNGCAGATGGCAACTGTGGCGAG 273
   ::::::::::::::::::::
Db 116 ProTyrThrLeuGlnTyrGlyArgCysGlyGlu 126
   ::::::::::::::::::::

RESULT 9
US-09-193-562D-12
; Sequence 12, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 12
; LENGTH: 821
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-12

Alignment Scores:
Pred. No.: 4.29e-32 Length: 821
Score: 288.00 Matches: 54
Percent Similarity: 74.73% Conservative: 14
Best Local Similarity: 59.34% Mismatches: 23
Query Match: 61.15% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-2 (1-273) x US-09-193-562D-12 (1-821)

QY 1 GTTGCAATCGACCCCAATGTGCAGAGATGAACACTATTCAACAAATAAAGGACATG 60
   ::::::::::::::::::::
Db 36 IleAlaIleAsnProSerValProGluAspGluLysLeuIleGluAsnIleLysGluMet 55
   ::::::::::::::::::::
QY 61 GTGACCCAGGCATCTCTGTATCTGTGTTGAAGCTACAGGAAAGCGATTTTATTTCAAAAAT 120
   ::::::::::::::::::::
Db 56 ValThrGluAlaSerThrTyrLeuPheHisAlaThrLysArgValTyrPheArgAsn 75
   ::::::::::::::::::::
QY 121 GTTGCCATTTTGTATCTCTGAAACATGGAAGCAAGAGTGTGAGACCAAACTT 180
   ::::::::::::::::::::
Db 76 ValSerIleLeuIleProMetThrTyrLysSerLysSerGluTyrPheIleProLysGln 95
   ::::::::::::::::::::
QY 181 GAGACCTACAAAATGCTGATGTTCTGGTGTCTGAGTCTTANTCCTCCAGNAATGATGAA 240
   ::::::::::::::::::::
Db 96 GluSerTyrAspGlnAlaAspValIleValAlaAsnProTyrLeuLysTyrGlyAspAsp 115
   ::::::::::::::::::::
QY 241 CCTACACTGNGCAGATGGCAACTGTGGCGAG 273
   ::::::::::::::::::::
Db 116 ProTyrThrLeuGlnTyrGlyArgCysGlyGlu 126
   ::::::::::::::::::::

RESULT 9
US-09-193-562D-12
; Sequence 12, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 12
; LENGTH: 821
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-12

Alignment Scores:
Pred. No.: 4.43e-32 Length: 905
Score: 288.00 Matches: 54
Percent Similarity: 74.73% Conservative: 14
Best Local Similarity: 59.34% Mismatches: 23
Query Match: 61.15% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-2 (1-273) x US-09-193-562D-2 (1-905)

QY 1 GTTGCAATCGACCCCAATGTGCAGAGATGAACACTATTCAACAAATAAAGGACATG 60
   ::::::::::::::::::::
Db 36 IleAlaIleAsnProSerValProGluAspGluLysLeuIleGluAsnIleLysGluMet 55
   ::::::::::::::::::::
QY 61 GTGACCCAGGCATCTCTGTATCTGTGTTGAAGCTACAGGAAAGCGATTTTATTTCAAAAAT 120
   ::::::::::::::::::::
Db 56 ValThrGluAlaSerThrTyrLeuPheHisAlaThrLysArgValTyrPheArgAsn 75
   ::::::::::::::::::::
QY 121 GTTGCCATTTTGTATCTCTGAAACATGGAAGCAAGAGTGTGAGACCAAACTT 180
   ::::::::::::::::::::
Db 76 ValSerIleLeuIleProMetThrTyrLysSerLysSerGluTyrPheIleProLysGln 95
   ::::::::::::::::::::
QY 181 GAGACCTACAAAATGCTGATGTTCTGGTGTCTGAGTCTTANTCCTCCAGNAATGATGAA 240
   ::::::::::::::::::::
Db 96 GluSerTyrAspGlnAlaAspValIleValAlaAsnProTyrLeuLysTyrGlyAspAsp 115
   ::::::::::::::::::::
QY 241 CCTACACTGNGCAGATGGCAACTGTGGCGAG 273
   ::::::::::::::::::::
Db 116 ProTyrThrLeuGlnTyrGlyArgCysGlyGlu 126
   ::::::::::::::::::::

RESULT 11
US-09-193-562D-34
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```
Db 36 IleAlaIleAsnProSerValProGluAspGluLysLeuIleGluAsnIleLysGluMet 55
   ::::::::::::::::::::
QY 61 GTGACCCAGGCATCTCTGTATCTGTGTTGAAGCTACAGGAAAGCGATTTTATTTCAAAAAT 120
   ::::::::::::::::::::
Db 56 ValThrGluAlaSerThrTyrLeuPheHisAlaThrLysArgValTyrPheArgAsn 75
   ::::::::::::::::::::
QY 121 GTTGCCATTTTGTATCTCTGAAACATGGAAGCAAGAGTGTGAGACCAAACTT 180
   ::::::::::::::::::::
Db 76 ValSerIleLeuIleProMetThrTyrLysSerLysSerGluTyrPheIleProLysGln 95
   ::::::::::::::::::::
QY 181 GAGACCTACAAAATGCTGATGTTCTGGTGTCTGAGTCTTANTCCTCCAGNAATGATGAA 240
   ::::::::::::::::::::
Db 96 GluSerTyrAspGlnAlaAspValIleValAlaAsnProTyrLeuLysTyrGlyAspAsp 115
   ::::::::::::::::::::
QY 241 CCTACACTGNGCAGATGGCAACTGTGGCGAG 273
   ::::::::::::::::::::
Db 116 ProTyrThrLeuGlnTyrGlyArgCysGlyGlu 126
   ::::::::::::::::::::

RESULT 10
US-09-193-562D-2
; Sequence 2, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 2
; LENGTH: 905
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells
US-09-193-562D-2

Alignment Scores:
Pred. No.: 4.43e-32 Length: 905
Score: 288.00 Matches: 54
Percent Similarity: 74.73% Conservative: 14
Best Local Similarity: 59.34% Mismatches: 23
Query Match: 61.15% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-2 (1-273) x US-09-193-562D-2 (1-905)

QY 1 GTTGCAATCGACCCCAATGTGCAGAGATGAACACTATTCAACAAATAAAGGACATG 60
   ::::::::::::::::::::
Db 36 IleAlaIleAsnProSerValProGluAspGluLysLeuIleGluAsnIleLysGluMet 55
   ::::::::::::::::::::
QY 61 GTGACCCAGGCATCTCTGTATCTGTGTTGAAGCTACAGGAAAGCGATTTTATTTCAAAAAT 120
   ::::::::::::::::::::
Db 56 ValThrGluAlaSerThrTyrLeuPheHisAlaThrLysArgValTyrPheArgAsn 75
   ::::::::::::::::::::
QY 121 GTTGCCATTTTGTATCTCTGAAACATGGAAGCAAGAGTGTGAGACCAAACTT 180
   ::::::::::::::::::::
Db 76 ValSerIleLeuIleProMetThrTyrLysSerLysSerGluTyrPheIleProLysGln 95
   ::::::::::::::::::::
QY 181 GAGACCTACAAAATGCTGATGTTCTGGTGTCTGAGTCTTANTCCTCCAGNAATGATGAA 240
   ::::::::::::::::::::
Db 96 GluSerTyrAspGlnAlaAspValIleValAlaAsnProTyrLeuLysTyrGlyAspAsp 115
   ::::::::::::::::::::
QY 241 CCTACACTGNGCAGATGGCAACTGTGGCGAG 273
   ::::::::::::::::::::
Db 116 ProTyrThrLeuGlnTyrGlyArgCysGlyGlu 126
   ::::::::::::::::::::

RESULT 11
US-09-193-562D-34
```

```

; Sequence 34, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 34
; LENGTH: 902
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-193-562D-34
Alignment Scores:
Pred. No.: 6,13e-32 Length: 902
Score: 287.00 Matches: 52
Percent Similarity: 75.82% Conservativeness: 17
Best Local Similarity: 57.14% Mismatches: 22
Query Match: 60.93% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-2 (1-273) x US-09-193-562D-34 (1-902)
Qy 1 GTTGCATCGACCCCAATGTCGACAGATGAAACACATCTTCAACAATAAAGGACATG 60
Db ::::|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
36 IieAlaileAasnProSerValProGluaspGluLysLeuileGlnasInleLysGluMet 55
Qy 61 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAAGCGATTTTATTTCAAAAT 120
Db :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
56 ValThrGlnAlaSerThrHisLeuPheHisAlaThrLysGlnArgAlaTyrPheArgasn 75
Qy 121 GTTGCCATTTGATTCCTGAAACATGGAAGCAAGAGNAGTGTATGTGAGACCAAACTT 180
Db :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
76 ValSerileLeuileProMetThrTyrLysSerLysSerGluTyrLeuileProLysGln 95
Qy 181 GAGACCTACAAAATGCTGATCTGTTGCTGAGTCTANTCTCCAGGNAATGATGAA 240
Db :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
96 GluThrTyrAspGlnAlaAspValIleValAlaAspLeuTyrLeuLysTyrGlyAsp 115
Qy 241 CCTACACTGNGCAGATGGCAACTGTGGCGAG 273
Db :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
116 ProTyrThrLeuGlnTyrGlyGlnCysGlyasp 126

RESULT 13
US-09-643-597-169
; Sequence 169, Application US/09643597
; Patent No. 6426072
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Henderson, Robert A.
; APPLICANT: McNeill, Patricia D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455C11
; CURRENT APPLICATION NUMBER: US/09/643,597
; CURRENT FILING DATE: 2000-08-21
; NUMBER OF SEQ ID NOS: 369
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 169
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-643-597-169
Alignment Scores:
Pred. No.: 5.69e-23 Length: 592
Score: 223.50 Matches: 42
Percent Similarity: 68.13% Conservativeness: 20
Best Local Similarity: 46.15% Mismatches: 28
Query Match: 47.45% Indels: 1
DB: 4 Gaps: 1

US-09-049-696-2 (1-273) x US-09-643-597-169 (1-592)
Qy 1 GTTGCAATCGACCCCAATGTCGACAGATGAAACACATCTTCAACAATAAAGGACATG 60
Db :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
45 IieAlaileAasnProGlnValProGluaspGlnAsnLeuileSerAsnIleLysGluMet 64
Qy 61 GTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAAGCGATTTTATTTCAAAAT 120
Db :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
65 IieThrGlnAlaSerPheTyrLeuPheAsnAlaThrLysArgValPhePheArgasn 84
Qy 121 GTTGCCATTTGATTCCTGAAACATGGAAGCAAGAGNAGTGTATGTGAGACCAAACTT 180
Db :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

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Db 85 IleLysIleLeuLeuProAlaThrTrpLysAlaAsnAsn---SerLysIleLysGln 103  
QY 181 GAGACCTACAAAAATGCTGATGTCCTGGTGTCTGCTGCTCTANTCCTCCAGNAATGATGAA 240  
Db 104 GluSerTyrGluLysAlaAsnValIleValThrAspTrpTyrGlyAlaHisGlyAspAsp 123  
QY 241 CCTACACTGNGCAGATGGCAACTGTGGCGAG 273  
Db 124 ProTyrThrLeuGlnTyrArgGlyCysGlyLys 134

RESULT 14

US-09-480-884A-169  
; Sequence 169, Application US/09480884A  
; Patent No. 6482597  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Fan, Liqun  
; APPLICANT: Hosken, Nancy A.  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Fanger, Gary R.  
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY  
; FILE REFERENCE: 210121.455C6  
; CURRENT APPLICATION NUMBER: US/09/480,884A  
; CURRENT FILING DATE: 2001-08-27  
; NUMBER OF SEQ ID NOS: 330  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 169  
; LENGTH: 592  
; TYPE: PRT  
; ORGANISM: Homo sapien  
US-09-480-884A-169

Alignment Scores:  
Pred. No.: 5,69e-23 Length: 592  
Score: 223.50 Matches: 42  
Percent Similarity: 68.13% Conservative: 20  
Best Local Similarity: 46.15% Mismatches: 28  
Query Match: 47.45% Indels: 1  
DB: 4 Gaps: 1

US-09-049-696-2 (1-273) x US-09-480-884A-169 (1-592)

QY 1 GTTGCAATCGACCCCAATGTCGAGAGATGAAACACTCATTCAACAAATAAAGGACATG 60  
Db 45 IleAlaIleAsnProGlnValProGluAsnGlnAsnLeuIleSerAsnIleLysGluMet 64  
QY 61 GTGACCCAGGCATCTCTGATCTGTTGAGCTACAGGAAGCGATTTTATTTCACAAAT 120  
Db 65 IleThrGluAlaSerPheTyrLeuPheAsnAlaThrLysArgValPhePheArgAsn 84  
QY 121 GTTGCCATTTTGCATCTCCTGAAACATGGAACAAAGGNTGACTATGTGAGACCAAACTT 180  
Db 85 IleLysIleLeuProAlaThrTrpLysAlaAsnAsn---SerLysIleLysGln 103  
QY 181 GAGACCTACAAAAATGCTGATGTCCTGGTGTCTGCTGCTANTCCTCCAGNAATGATGAA 240  
Db 104 GluSerTyrGluLysAlaAsnValIleValThrAspTrpTyrGlyAlaHisGlyAspAsp 123  
QY 241 CCTACACTGNGCAGATGGCAACTGTGGCGAG 273  
Db 124 ProTyrThrLeuGlnTyrArgGlyCysGlyLys 134

RESULT 15

US-09-542-615A-169  
; Sequence 169, Application US/09542615A  
; Patent No. 6518256  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Fan, Liqun  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Bangur, Chaitanya S.

; APPLICANT: Hosken, Nancy A.  
; APPLICANT: Fanger, Gary R.  
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY  
; FILE REFERENCE: 210121.455C8  
; CURRENT APPLICATION NUMBER: US/09/542,615A  
; CURRENT FILING DATE: 2000-04-14  
; NUMBER OF SEQ ID NOS: 350  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 169  
; LENGTH: 592  
; TYPE: PRT  
; ORGANISM: Homo sapien  
US-09-542-615A-169

Alignment Scores:  
Pred. No.: 5,69e-23 Length: 592  
Score: 223.50 Matches: 42  
Percent Similarity: 68.13% Conservative: 20  
Best Local Similarity: 46.15% Mismatches: 28  
Query Match: 47.45% Indels: 1  
DB: 4 Gaps: 1

US-09-049-696-2 (1-273) x US-09-542-615A-169 (1-592)

QY 1 GTTGCAATCGACCCCAATGTCGAGAGATGAAACACTCATTCAACAAATAAAGGACATG 60  
Db 45 IleAlaIleAsnProGlnValProGluAsnGlnAsnLeuIleSerAsnIleLysGluMet 64  
QY 61 GTGACCCAGGCATCTCTGATCTGTTGAGCTACAGGAAGCGATTTTATTTCACAAAT 120  
Db 65 IleThrGluAlaSerPheTyrLeuPheAsnAlaThrLysArgValPhePheArgAsn 84  
QY 121 GTTGCCATTTTGCATCTCCTGAAACATGGAACAAAGGNTGACTATGTGAGACCAAACTT 180  
Db 85 IleLysIleLeuProAlaThrTrpLysAlaAsnAsn---SerLysIleLysGln 103  
QY 181 GAGACCTACAAAAATGCTGATGTCCTGGTGTCTGCTGCTANTCCTCCAGNAATGATGAA 240  
Db 104 GluSerTyrGluLysAlaAsnValIleValThrAspTrpTyrGlyAlaHisGlyAspAsp 123  
QY 241 CCTACACTGNGCAGATGGCAACTGTGGCGAG 273  
Db 124 ProTyrThrLeuGlnTyrArgGlyCysGlyLys 134

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Job time : 16.931 secs

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: April 24, 2004, 04:05:52 ; Search time 119.341 Seconds  
(without alignments)  
8424.829 Million cell updates/sec

Title: US-09-049-696-1

Perfect score: 223

Sequence: 1 GAATCAGAGGAGATGTAC.....ATCTGTATCTGTTGAAG 223

Scoring table: IDENTITY NUC

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Searched: 2907579 seqs, 2254313464 residues

Total number of hits satisfying chosen parameters: 581518

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%

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15: /cgn2\_6/ptodata/2/pubpna/US10B\_PUBCOMB.seq.\*  
16: /cgn2\_6/ptodata/2/pubpna/US10C\_PUBCOMB.seq.\*  
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18: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq.\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	223	100.0	232	16	US-10-305-720-290
2	223	100.0	2854	15	US-10-106-698-1971
3	223	100.0	2867	15	US-10-106-698-351
4	223	100.0	3111	9	US-09-923-356-25
5	223	100.0	3111	9	US-09-981-353-191
6	223	100.0	3111	15	US-10-235-994-25
7	223	100.0	3267	9	US-09-764-868-22
8	221.4	99.3	3007	15	US-10-055-412B-27
9	221.4	99.3	3311	9	US-09-922-217-1056
10	221.4	99.3	3311	9	US-09-833-263-1056
11	221.4	99.3	3311	14	US-10-025-380-1056
12	221.4	99.3	3311	15	US-10-393-590-11
13	221.4	99.3	3311	15	US-10-393-590-12
14	221.4	99.3	3311	15	US-10-393-590-46

15	221.4	99.3	3311	15	US-10-393-590-47	Sequence 47, Appl
16	221.4	99.3	3311	15	US-10-393-567-11	Sequence 11, Appl
17	221.4	99.3	3311	15	US-10-393-567-12	Sequence 12, Appl
18	221.4	99.3	3311	15	US-10-393-567-46	Sequence 46, Appl
19	221.4	99.3	3311	15	US-10-393-567-47	Sequence 47, Appl
20	221.4	99.3	3311	15	US-10-394-087-11	Sequence 11, Appl
21	221.4	99.3	3311	15	US-10-394-087-12	Sequence 12, Appl
22	221.4	99.3	3311	15	US-10-394-087-46	Sequence 46, Appl
23	221.4	99.3	3311	15	US-10-394-087-47	Sequence 47, Appl
24	202	90.6	508	15	US-10-066-543-1503	Sequence 1503, Ap
25	199	89.2	2745	15	US-10-270-595-5	Sequence 5, Appl
26	187	83.9	4569	10	US-09-867-034-3	Sequence 3, Appl
27	187	83.9	4569	13	US-10-276-115-3	Sequence 3, Appl
28	138.2	62.0	2931	15	US-10-270-595-1	Sequence 1, Appl
29	120	53.8	533	13	US-09-878-134-182	Sequence 182, App
C 30	120	53.8	533	14	US-10-033-528-1883	Sequence 1883, Ap
C 31	120	53.8	533	15	US-10-099-926-1883	Sequence 1883, Ap
32	115	51.6	401	9	US-09-922-217-34	Sequence 34, Appl
33	115	51.6	401	9	US-09-833-263-34	Sequence 34, Appl
34	115	51.6	401	14	US-10-025-380-34	Sequence 34, Appl
35	100.6	45.1	219	14	US-10-025-167-2	Sequence 2, Appl
36	100.6	45.1	241	14	US-10-025-167-1	Sequence 1, Appl
37	100.6	45.1	334	10	US-09-803-719-2212	Sequence 2212, Ap
38	100.6	45.1	3043	14	US-10-025-167-16	Sequence 16, Appl
39	100.6	45.1	3169	9	US-09-981-353-53	Sequence 53, Appl
40	100.6	45.1	3169	15	US-10-235-994-15	Sequence 15, Appl
41	100.6	45.1	3181	14	US-10-025-167-18	Sequence 18, Appl
42	100.6	45.1	3195	10	US-09-867-034-22	Sequence 22, Appl
43	100.6	45.1	3195	13	US-10-276-115-22	Sequence 22, Appl
44	100.6	45.1	3196	15	US-10-158-646-39	Sequence 39, Appl
45	100.6	45.1	3204	15	US-10-345-680-31	Sequence 31, Appl

#### ALIGNMENTS

#### RESULT 1

US-10-305-720-290  
; Sequence 290, Application US/10305720  
; Publication No. US20040010136A1  
; GENERAL INFORMATION:  
; APPLICANT: Al-Young, Janice K.; Seilhamer, Jeffrey J.  
; TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expression  
; FILE REFERENCE: PA-0002-1 CON  
; CURRENT APPLICATION NUMBER: US/10/305,720  
; CURRENT FILING DATE: 2002-11-26  
; PRIOR APPLICATION NUMBER: 09/016,434  
; PRIOR FILING DATE: 1998-01-30  
; NUMBER OF SEQ ID NOS: 1490  
; SOFTWARE: PERL Program  
; SEQ ID NO 290  
; LENGTH: 232  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20040010136A1 1737775  
US-10-305-720-290

Query Match	100.0%;	Score 223;	DB 16;	Length 232;
Best Local Similarity	100.0%;	Pred. No. 3.9e-67;		
Matches 223;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	GAATCAGAGGAGATGTACAGCAATGGGGCCCAATTTAAGAGTTCTCTGTTTCATCTTGATT	60	
Db	10	GAATCAGAGGAGATGTACAGCAATGGGGCCCAATTTAAGAGTTCTCTGTTTCATCTTGATT	69	
QY	61	CTTCACCTTCTAGAAGGGCCCTGAGTAATTCATCTCATTGAGTGAACCAATGGCTAT	120	
Db	70	CTTCACCTTCTAGAAGGGCCCTGAGTAATTCATCTCATTGAGTGAACCAATGGCTAT	129	
QY	121	GAAGCATTGTCTGTGCAATCCCAATGCGCCAGAGATGAACATCTATTCAACAA	180	

Db 130 GAAGGCATTGTCCTTGAATCGACCCCAATGTGCCAGAGATGAACACTCATTTCAACAA 189  
QY 181 ATAAAGGACATGGTGACCCAGGACATCTCTGTATCTGTTTGAAG 223  
Db 190 ATAAAGGACATGGTGACCCAGGACATCTCTGTATCTGTTTGAAG 232

## RESULT 2

US-10-106-698-1971  
; Sequence 1971, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide  
; FILE REFERENCE: PA005PI  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 1971  
; LENGTH: 2854  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-106-698-1971

Query Match 100.0%; Score 223; DB 15; Length 2854;  
Best Local Similarity 100.0%; Pred. No. 1.5e-66;  
Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GAAATCACAGGAGATGTACAGCAATGGGGCCCAATTTAAGAGTTCTGTGTTCACTTTGATT 60  
Db 11 GAAATCACAGGAGATGTACAGCAATGGGGCCCAATTTAAGAGTTCTGTGTTCACTTTGATT 70  
QY 61 CTTACCTTCTAGAGGGGCCCTGAGTAATTCATCTATTCAGTGAACAACTATGGCTAT 120  
Db 71 CTTACCTTCTAGAGGGGCCCTGAGTAATTCATCTATTCAGTGAACAACTATGGCTAT 130  
QY 121 GAAGGCATTGTCCTTGAATCGACCCCAATGTGCCAGAGATGAACACTCATTTCAACAA 180  
Db 131 GAAGGCATTGTCCTTGAATCGACCCCAATGTGCCAGAGATGAACACTCATTTCAACAA 190  
QY 181 ATAAAGGACATGGTGACCCAGGACATCTCTGTATCTGTTTGAAG 223  
Db 191 ATAAAGGACATGGTGACCCAGGACATCTCTGTATCTGTTTGAAG 233

## RESULT 3

US-10-106-698-351  
; Sequence 351, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide  
; FILE REFERENCE: PA005PI  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 351  
; LENGTH: 2867  
; TYPE: DNA

; ORGANISM: Homo sapiens  
US-10-106-698-351  
Query Match 100.0%; Score 223; DB 15; Length 2867;  
Best Local Similarity 100.0%; Pred. No. 1.5e-66;  
Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GAAATCACAGGAGATGTACAGCAATGGGGCCCAATTTAAGAGTTCTGTGTTCACTTTGATT 60  
Db 14 GAAATCACAGGAGATGTACAGCAATGGGGCCCAATTTAAGAGTTCTGTGTTCACTTTGATT 73  
QY 61 CTTACCTTCTAGAGGGGCCCTGAGTAATTCATCTATTCAGTGAACAACTATGGCTAT 120  
Db 74 CTTACCTTCTAGAGGGGCCCTGAGTAATTCATCTATTCAGTGAACAACTATGGCTAT 133  
QY 121 GAAGGCATTGTCCTTGAATCGACCCCAATGTGCCAGAGATGAACACTCATTTCAACAA 180  
Db 134 GAAGGCATTGTCCTTGAATCGACCCCAATGTGCCAGAGATGAACACTCATTTCAACAA 193  
QY 181 ATAAAGGACATGGTGACCCAGGACATCTCTGTATCTGTTTGAAG 223  
Db 194 ATAAAGGACATGGTGACCCAGGACATCTCTGTATCTGTTTGAAG 236

## RESULT 4

US-09-823-356-25  
; Sequence 25, Application US/09823356  
; Patent No. US20010025098A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Kaser, Matthew R.  
; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
; FILE REFERENCE: PF-0489-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823,356  
; CURRENT FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/039,307  
; PRIOR FILING DATE: 1998 March 13  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PERL Program  
; SEQ ID NO 25  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775  
US-09-823-356-25

Query Match 100.0%; Score 223; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 1.6e-66;  
Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GAAATCACAGGAGATGTACAGCAATGGGGCCCAATTTAAGAGTTCTGTGTTCACTTTGATT 60  
Db 10 GAAATCACAGGAGATGTACAGCAATGGGGCCCAATTTAAGAGTTCTGTGTTCACTTTGATT 69  
QY 61 CTTACCTTCTAGAGGGGCCCTGAGTAATTCATCTATTCAGTGAACAACTATGGCTAT 120  
Db 70 CTTACCTTCTAGAGGGGCCCTGAGTAATTCATCTATTCAGTGAACAACTATGGCTAT 129  
QY 121 GAAGGCATTGTCCTTGAATCGACCCCAATGTGCCAGAGATGAACACTCATTTCAACAA 180  
Db 130 GAAGGCATTGTCCTTGAATCGACCCCAATGTGCCAGAGATGAACACTCATTTCAACAA 189  
QY 181 ATAAAGGACATGGTGACCCAGGACATCTCTGTATCTGTTTGAAG 223

Db 190 ATAAAGGACATGCTGACCCAGGCATCTCTGTATCTGTTGAAG 232  
|||||

## RESULT 5

US-09-981-353-191  
; Sequence 191, Application US/09981353  
; Patent No. US20020160382A1  
; GENERAL INFORMATION:  
; APPLICANT: Lasek, Amy W.  
; APPLICANT: Jones, David A.  
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
; FILE REFERENCE: PA-0038 US  
; CURRENT APPLICATION NUMBER: US/09/981,353  
; CURRENT FILING DATE: 2001-10-11  
; NUMBER OF SEQ ID NOS: 194  
; SOFTWARE: PERL Program  
; SEQ ID NO 191  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20020160382A1 173775CB1  
US-09-981-353-191

Query Match 100.0%; Score 223; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 1.6e-66;  
Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAAATCACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTTCACTTTGATT 60  
|||  
Db 10 GAAATCACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTTCACTTTGATT 69  
|||  
QY 61 CTTCACTTCTAGAGGGCCCTGAGTAATTCATCTATTGAGTGAACAATGGCTAT 120  
|||  
Db 70 CTTCACTTCTAGAGGGCCCTGAGTAATTCATCTATTGAGTGAACAATGGCTAT 129  
|||  
QY 121 GAAGGCATTGTCTGTCATTCGACCCCAATGTGCCAGAGATGAAACACTCATTCAACAA 180  
|||  
Db 130 GAAGGCATTGTCTGTCATTCGACCCCAATGTGCCAGAGATGAAACACTCATTCAACAA 189  
|||  
QY 181 ATAAAGGACATGCTGACCCAGGCATCTCTGTATCTGTTGAAG 223  
|||  
Db 190 ATAAAGGACATGCTGACCCAGGCATCTCTGTATCTGTTGAAG 232  
|||

## RESULT 6

US-10-235-994-25  
; Sequence 25, Application US/10235994  
; Publication No. US20030101002A1  
; GENERAL INFORMATION:  
; APPLICANT: Bartha, Gabor  
; APPLICANT: Walker, Michael  
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS  
; FILE REFERENCE: ICYTP012  
; CURRENT APPLICATION NUMBER: US/10/235,994  
; CURRENT FILING DATE: 2002-09-04  
; PRIOR APPLICATION NUMBER: US/10/003,608  
; PRIOR FILING DATE: 2001-11-01  
; PRIOR APPLICATION NUMBER: 60/245,081  
; PRIOR FILING DATE: 2000-11-01  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 25  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Human  
US-10-235-994-25

Query Match 100.0%; Score 223; DB 15; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 1.6e-66;  
Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAAATCACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTTCACTTTGATT 60  
|||  
Db 10 GAAATCACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTTCACTTTGATT 69  
|||  
QY 61 CTTCACTTCTAGAGGGCCCTGAGTAATTCATCTATTGAGTGAACAATGGCTAT 120  
|||  
Db 70 CTTCACTTCTAGAGGGCCCTGAGTAATTCATCTATTGAGTGAACAATGGCTAT 129  
|||  
QY 121 GAAGGCATTGTCTGTCATTCGACCCCAATGTGCCAGAGATGAAACACTCATTCAACAA 180  
|||  
Db 130 GAAGGCATTGTCTGTCATTCGACCCCAATGTGCCAGAGATGAAACACTCATTCAACAA 189  
|||  
QY 181 ATAAAGGACATGCTGACCCAGGCATCTCTGTATCTGTTGAAG 223  
|||  
Db 190 ATAAAGGACATGCTGACCCAGGCATCTCTGTATCTGTTGAAG 232  
|||

## RESULT 7

US-09-764-868-22  
; Sequence 22, Application US/09764868  
; Patent No. US20020168711A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PT232  
; CURRENT APPLICATION NUMBER: US/09/764,868  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 1510  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 22  
; LENGTH: 3267  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-764-868-22

Query Match 100.0%; Score 223; DB 9; Length 3267;  
Best Local Similarity 100.0%; Pred. No. 1.7e-66;  
Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAAATCACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTTCACTTTGATT 60  
|||  
Db 11 GAAATCACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTTCACTTTGATT 70  
|||  
QY 61 CTTCACTTCTAGAGGGCCCTGAGTAATTCATCTATTGAGTGAACAATGGCTAT 120  
|||  
Db 71 CTTCACTTCTAGAGGGCCCTGAGTAATTCATCTATTGAGTGAACAATGGCTAT 130  
|||  
QY 121 GAAGGCATTGTCTGTCATTCGACCCCAATGTGCCAGAGATGAAACACTCATTCAACAA 180  
|||  
Db 131 GAAGGCATTGTCTGTCATTCGACCCCAATGTGCCAGAGATGAAACACTCATTCAACAA 190  
|||  
QY 181 ATAAAGGACATGCTGACCCAGGCATCTCTGTATCTGTTGAAG 223  
|||  
Db 191 ATAAAGGACATGCTGACCCAGGCATCTCTGTATCTGTTGAAG 233  
|||

## RESULT 8

US-10-055-412B-27  
; Sequence 27, Application US/10055412B  
; Publication No. US20030059861A1  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 27  
; LENGTH: 3007  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-055-412B-27

Query Match 99.3%; Score 221.4; DB 15; Length 3007;  
Best Local Similarity 99.6%; Pred. No. 5.7e-66;  
Matches 222; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GAAATCACAGGAGATGTACAGCAATGGGGCCCAATTTAAGAGTTCTGTGTTCATCTTGATT 60  
DB 23 GGAATCACAGGAGATGTACAGCAATGGGGCCCAATTTAAGAGTTCTGTGTTCATCTTGATT 82  
QY 61 CTTACCTTCTAGAGGGCCCTGAGTAATTCATCTCATTGAGTGAACAACTGGCTAT 120  
DB 83 CTTACCTTCTAGAGGGCCCTGAGTAATTCATCTCATTGAGTGAACAACTGGCTAT 142  
QY 121 GAAGGCATTGTCTGCAATCGACCCCAATGTGCCAGAGATGAACACTCTATTCAACAA 180  
DB 143 GAAGGCATTGTCTGCAATCGACCCCAATGTGCCAGAGATGAACACTCTATTCAACAA 202  
QY 181 ATAAAGGACATGGTACCCAGGCATCTCTGTATCTGTTTGAAG 223  
DB 203 ATAAAGGACATGGTACCCAGGCATCTCTGTATCTGTTTGAAG 245

## RESULT 9

US-09-922-217-1056  
; Sequence 1056, Application US/09922217  
; Patent No. US20020076414A1

## GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Jionglong  
; APPLICANT: Jiang, Yudi  
; APPLICANT: Smith, Carole Lynn  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.

; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; FILE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE

; FILE REFERENCE: 210121.471C13

; CURRENT APPLICATION NUMBER: US/09/922,217

; NUMBER OF SEQ ID NOS: 1124

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 1056

; LENGTH: 3311

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-922-217-1056

Query Match 99.3%; Score 221.4; DB 9; Length 3311;  
Best Local Similarity 99.6%; Pred. No. 6e-66;  
Matches 222; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GAAATCACAGGAGATGTACAGCAATGGGGCCCAATTTAAGAGTTCTGTGTTCATCTTGATT 60  
DB 328 GGAATCACAGGAGATGTACAGCAATGGGGCCCAATTTAAGAGTTCTGTGTTCATCTTGATT 387  
QY 61 CTTACCTTCTAGAGGGCCCTGAGTAATTCATCTCATTGAGTGAACAACTGGCTAT 120  
DB 388 CTTACCTTCTAGAGGGCCCTGAGTAATTCATCTCATTGAGTGAACAACTGGCTAT 447  
QY 121 GAAGGCATTGTCTGCAATCGACCCCAATGTGCCAGAGATGAACACTCTATTCAACAA 180  
DB 448 GAAGGCATTGTCTGCAATCGACCCCAATGTGCCAGAGATGAACACTCTATTCAACAA 507

QY 181 ATAAAGGACATGGTACCCAGGCATCTCTGTATCTGTTTGAAG 223  
DB 508 ATAAAGGACATGGTACCCAGGCATCTCTGTATCTGTTTGAAG 550

## RESULT 10

US-09-833-263-1056

; Sequence 1056, Application US/09833263

; Patent No. US20020110547A1

## GENERAL INFORMATION:

; APPLICANT: Wang, Aijun

; APPLICANT: Clapper, Jonathan D.

; APPLICANT: Stolk, John A.

; APPLICANT: Meagher, Madeleine J.

; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND

; FILE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE

; FILE REFERENCE: 210121.471C12

; CURRENT APPLICATION NUMBER: US/09/833,263

; NUMBER OF SEQ ID NOS: 1093

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 1056

; LENGTH: 3311

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-833-263-1056

## Query Match

99.3%; Score 221.4; DB 9; Length 3311;

Best Local Similarity 99.6%; Pred. No. 6e-66;

Matches 222; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GAAATCACAGGAGATGTACAGCAATGGGGCCCAATTTAAGAGTTCTGTGTTCATCTTGATT 60

DB 328 GGAATCACAGGAGATGTACAGCAATGGGGCCCAATTTAAGAGTTCTGTGTTCATCTTGATT 387

QY 61 CTTACCTTCTAGAGGGCCCTGAGTAATTCATCTCATTGAGTGAACAACTGGCTAT 120

DB 388 CTTACCTTCTAGAGGGCCCTGAGTAATTCATCTCATTGAGTGAACAACTGGCTAT 447

QY 121 GAAGGCATTGTCTGCAATCGACCCCAATGTGCCAGAGATGAACACTCTATTCAACAA 180

DB 448 GAAGGCATTGTCTGCAATCGACCCCAATGTGCCAGAGATGAACACTCTATTCAACAA 507

QY 181 ATAAAGGACATGGTACCCAGGCATCTCTGTATCTGTTTGAAG 223

DB 508 ATAAAGGACATGGTACCCAGGCATCTCTGTATCTGTTTGAAG 550

## RESULT 11

US-10-025-380-1056

; Sequence 1056, Application US/10025380

; Publication No. US20020182191A1

## GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

; APPLICANT: Lodes, Michael J.

; APPLICANT: Secrist, Heather

; APPLICANT: Benson, Darin R.

; APPLICANT: Meagher, Madeleine Joy

; APPLICANT: Stolk, John A.

; APPLICANT: Wang, Jionglong

; APPLICANT: Jiang, Yudi

; APPLICANT: Smith, Carole L.

; APPLICANT: King, Gordon E.

; APPLICANT: Wang, Aijun

; APPLICANT: Clapper, Jonathan D.

; APPLICANT: Skeiky, Yasir A. W.

; APPLICANT: Fanger, Gary R.

; APPLICANT: Vedwick Thomas S.

; APPLICANT: Carter, Darrick

; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS

; FILE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE

; FILE REFERENCE: 210121.471C14



; CURRENT APPLICATION NUMBER: US/10/025,380  
; CURRENT FILING DATE: 2001-12-19  
; NUMBER OF SEQ ID NOS: 1129  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1056  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-025-380-1056

Query Match 99.3%; Score 221.4; DB 14; Length 3311;  
Best Local Similarity 99.6%; Pred. No. 6e-66; Indels 0; Gaps 0;  
Matches 222; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 GAAATCACAGGGAGATGTACAGCAATGGGGCCATTTAAAGAGTTCTGTGTTCACTTTGATT 60  
DB 328 GGAATCACAGGGAGATGTACAGCAATGGGGCCATTTAAAGAGTTCTGTGTTCACTTTGATT 387  
QY 61 CTTACCTTCTAGAGGGCCCTGAGTAATCTACTATTGAGTGAACCAATGGCTAT 120  
DB 388 CTTACCTTCTAGAGGGCCCTGAGTAATCTACTATTGAGTGAACCAATGGCTAT 447  
QY 121 GAAGGCATTGTCGTTGCAATCGACCCCAATGTGCCAGAGATGAACACTCATTCAACAA 180  
DB 448 GAAGGCATTGTCGTTGCAATCGACCCCAATGTGCCAGAGATGAACACTCATTCAACAA 507  
QY 181 ATAAAGGACATGTTGACCCAGGCATCTCTGTATCTGTTTGAAG 223  
DB 508 ATAAAGGACATGTTGACCCAGGCATCTCTGTATCTGTTTGAAG 550

## RESULT 12

US-10-393-590-11  
; Sequence 11, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:

; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; PRIOR FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 11  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-590-11

Query Match 99.3%; Score 221.4; DB 15; Length 3311;  
Best Local Similarity 99.6%; Pred. No. 6e-66; Indels 0; Gaps 0;  
Matches 222; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 GAAATCACAGGGAGATGTACAGCAATGGGGCCATTTAAAGAGTTCTGTGTTCACTTTGATT 60  
DB 328 GGAATCACAGGGAGATGTACAGCAATGGGGCCATTTAAAGAGTTCTGTGTTCACTTTGATT 387  
QY 61 CTTACCTTCTAGAGGGCCCTGAGTAATCTACTATTGAGTGAACCAATGGCTAT 120  
DB 388 CTTACCTTCTAGAGGGCCCTGAGTAATCTACTATTGAGTGAACCAATGGCTAT 447  
QY 121 GAAGGCATTGTCGTTGCAATCGACCCCAATGTGCCAGAGATGAACACTCATTCAACAA 180  
DB 448 GAAGGCATTGTCGTTGCAATCGACCCCAATGTGCCAGAGATGAACACTCATTCAACAA 507  
QY 181 ATAAAGGACATGTTGACCCAGGCATCTCTGTATCTGTTTGAAG 223  
DB 508 ATAAAGGACATGTTGACCCAGGCATCTCTGTATCTGTTTGAAG 550

## RESULT 13

## US-10-393-590-12

; Sequence 12, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:

; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; PRIOR FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 12  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-590-12

Query Match 99.3%; Score 221.4; DB 15; Length 3311;  
Best Local Similarity 99.6%; Pred. No. 6e-66; Indels 0; Gaps 0;  
Matches 222; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 GAAATCACAGGGAGATGTACAGCAATGGGGCCATTTAAAGAGTTCTGTGTTCACTTTGATT 60  
DB 328 GGAATCACAGGGAGATGTACAGCAATGGGGCCATTTAAAGAGTTCTGTGTTCACTTTGATT 387  
QY 61 CTTACCTTCTAGAGGGCCCTGAGTAATCTACTATTGAGTGAACCAATGGCTAT 120  
DB 388 CTTACCTTCTAGAGGGCCCTGAGTAATCTACTATTGAGTGAACCAATGGCTAT 447  
QY 121 GAAGGCATTGTCGTTGCAATCGACCCCAATGTGCCAGAGATGAACACTCATTCAACAA 180  
DB 448 GAAGGCATTGTCGTTGCAATCGACCCCAATGTGCCAGAGATGAACACTCATTCAACAA 507  
QY 181 ATAAAGGACATGTTGACCCAGGCATCTCTGTATCTGTTTGAAG 223  
DB 508 ATAAAGGACATGTTGACCCAGGCATCTCTGTATCTGTTTGAAG 550

## RESULT 14

US-10-393-590-46  
; Sequence 46, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:

; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; PRIOR FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 46  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-590-46

Query Match 99.3%; Score 221.4; DB 15; Length 3311;  
Best Local Similarity 99.6%; Pred. No. 6e-66; Indels 0; Gaps 0;  
Matches 222; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
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DB 328 GGAATCACAGGGAGATGTACAGCAATGGGGCCATTTAAAGAGTTCTGTGTTCACTTTGATT 387  
QY 61 CTTACCTTCTAGAGGGCCCTGAGTAATCTACTATTGAGTGAACCAATGGCTAT 120  
DB 388 CTTACCTTCTAGAGGGCCCTGAGTAATCTACTATTGAGTGAACCAATGGCTAT 447  
QY 121 GAAGGCATTGTCGTTGCAATCGACCCCAATGTGCCAGAGATGAACACTCATTCAACAA 180

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; Sequence 47, Application US/10393590
; Publication No. US20030190656A1
; GENERAL INFORMATION:
; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO
; FILE REFERENCE: CDS 268 US NP
; CURRENT APPLICATION NUMBER: US/10/393,590
; CURRENT FILING DATE: 2003-03-21
; PRIOR APPLICATION NUMBER: 60/368,789
; PRIOR FILING DATE: 2002-03-29
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 47
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: human
US-10-393-590-47
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Query Match 99.3%; Score 221.4; DB 15; Length 3311;
Best Local Similarity 99.6%; Pred. No. 6e-66;
Matches 222; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GAAATCACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTTTCATCTTGATT 60
Db 328 GGAATCACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTTTCATCTTGATT 387
Qy 61 CTTACCTTCTAGAGGGGCCCTGAGTAATTCACCTCAGCTGAACAACTGGCTAT 120
Db 388 CTTACCTTCTAGAGGGGCCCTGAGTAATTCACCTCAGCTGAACAACTGGCTAT 447
Qy 121 GAAGGCATTGTCGTTGCAATCGACCCCAATGTGCCAGAAGATGAAACACTATTCAACAA 180
Db 448 GAAGGCATTGTCGTTGCAATCGACCCCAATGTGCCAGAAGATGAAACACTATTCAACAA 507
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Search completed: April 24, 2004, 06:38:09  
Job time : 121.341 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - protein search, using frame\_plus\_n2p model

Run on: April 21, 2004, 16:13:49 ; Search time 32.1054 Seconds  
(without alignments)  
3840.718 Million cell updates/sec

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Perfect score: 391  
Sequence: 1 GAATACAGGAGATGTAC.....ATCTGTATCTGTTTGAAG 223

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Searched: 1133595 seqs, 276475211 residues

Total number of hits satisfying chosen parameters: 2267190

Minimum DB seq length: 0  
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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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- 10: /cgn2\_6/ptodata/2/pubpaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep.\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	371	94.9	925	9	US-09-764-868-635	Sequence 635, App
2	371	94.9	925	14	US-10-106-698-6248	Sequence 6248, App
3	328	83.9	914	9	US-09-823-356-8	Sequence 8, Appl1
4	328	83.9	914	9	US-09-922-217-1066	Sequence 1066, App
5	328	83.9	914	9	US-09-833-263-1066	Sequence 1066, App
6	328	83.9	914	9	US-09-981-353-192	Sequence 192, App
7	328	83.9	914	11	US-09-833-245-2054	Sequence 2054, App
8	328	83.9	914	13	US-10-025-380-1066	Sequence 1066, App
9	328	83.9	914	14	US-10-055-412B-28	Sequence 28, Appl1
10	328	83.9	914	14	US-10-270-595-6	Sequence 6, Appl1
11	328	83.9	914	14	US-10-235-994-26	Sequence 26, Appl1
12	328	83.9	914	14	US-10-060-255-42	Sequence 42, Appl1
13	328	83.9	914	15	US-10-369-214-133	Sequence 133, App
14	257	65.7	913	15	US-10-270-595-2	Sequence 2, Appl1
15	257	65.7	913	15	US-10-369-214-132	Sequence 132, App
16	196.5	50.3	917	9	US-09-981-353-54	Sequence 54, Appl1
17	196.5	50.3	917	13	US-10-025-167-41	Sequence 41, Appl1
18	196.5	50.3	917	14	US-10-235-994-16	Sequence 16, Appl1
19	196.5	50.3	917	14	US-10-345-680-32	Sequence 32, Appl1
20	196.5	50.3	917	15	US-10-369-214-134	Sequence 134, App
21	196.5	50.3	917	15	US-10-087-080-34	Sequence 34, App
22	196.5	50.3	919	9	US-09-989-722-379	Sequence 379, App
23	196.5	50.3	919	9	US-09-989-723-379	Sequence 379, App
24	196.5	50.3	919	9	US-09-989-279-379	Sequence 379, App
25	196.5	50.3	919	9	US-09-989-727-379	Sequence 379, App
26	196.5	50.3	919	9	US-09-989-731-379	Sequence 379, App
27	196.5	50.3	919	9	US-09-989-732-379	Sequence 379, App
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33	196.5	50.3	919	9	US-09-989-721-379	Sequence 379, App
34	196.5	50.3	919	9	US-09-992-598-379	Sequence 379, App
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36	196.5	50.3	919	9	US-09-989-735-379	Sequence 379, App
37	196.5	50.3	919	9	US-09-990-444-379	Sequence 379, App
38	196.5	50.3	919	9	US-09-991-181-379	Sequence 379, App
39	196.5	50.3	919	9	US-09-989-730-379	Sequence 379, App
40	196.5	50.3	919	9	US-09-990-436-379	Sequence 379, App
41	196.5	50.3	919	9	US-09-993-687-379	Sequence 379, App
42	196.5	50.3	919	10	US-09-989-734-379	Sequence 379, App
43	196.5	50.3	919	10	US-09-997-653-379	Sequence 379, App
44	196.5	50.3	919	10	US-09-993-667-379	Sequence 379, App
45	196.5	50.3	919	10	US-09-997-428-379	Sequence 379, App

ALIGNMENTS

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US-09-764-868-635  
; Sequence 635, Application US/09764868  
; Patent No. US20020168711A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PT232  
; CURRENT APPLICATION NUMBER: US/09/764,868  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 1510  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 635  
; LENGTH: 925  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-764-868-635

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Best Local Similarity:	100.00%	Mismatches:	0	

Query Match: 94.88% Indels: 0  
DB: 9 Gaps: 0  
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DB 4 GluileThrGlyArgCysThrAlaMetGlyProPheLysSerValPheileLeuile 23  
QY 61 CTTACCTTCTAGAGGGCCCTGAGTAATTCATCTAGCTGAACAACAATGGCTAT 120  
DB 24 LeuHisLeuLeuGluGlyAlaLeuSerAsnSerLeuileGlnLeuAsnAsnGlyTyr 43  
QY 121 GAAGGCAATGTCGTTCAATCGACCCCAATGTGCCAGAGATGAACACTCTTCAACAA 180  
DB 44 GluGlyileValValAlaileaspProAsnValProGluaspGluThrLeuileGlnGln 63  
QY 181 ATAAAGGACATGGTGACCCAGGCATCTCTGTATCTGTTTGA 222  
DB 64 IleLysAspMetValThrGlnAlaSerLeuTyrLeuPheGlu 77  
RESULT 2  
US-10-106-698-6248  
; Sequence 6248, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: Patent In Ver. 3.0  
; SEQ ID NO 6248  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
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QY 61 CTTACCTTCTAGAGGGCCCTGAGTAATTCATCTAGCTGAACAACAATGGCTAT 120  
DB 24 LeuHisLeuLeuGluGlyAlaLeuSerAsnSerLeuileGlnLeuAsnAsnGlyTyr 43  
QY 121 GAAGGCAATGTCGTTCAATCGACCCCAATGTGCCAGAGATGAACACTCTTCAACAA 180  
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US-09-823-356-8

; Sequence 8, Application US/09823356  
; Patent No. US20010025098A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Kaser, Matthew R.  
; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
; FILE REFERENCE: PF-0499-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823,356  
; CURRENT FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/039,307  
; PRIOR FILING DATE: 1998 March 13  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PERL Program  
; SEQ ID NO 8  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775  
US-09-823-356-8  
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Score: 328.00 Matches: 66  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 83.89% Indels: 0  
DB: 9 Gaps: 0  
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QY 85 AGTAATTCACCTTCACTGACCAACAATGGCTAGGCAATGGCTAGGCAATGGCTAGGCAATGGCA 144  
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QY 205 TCTCTGTATCTGTTTGA 222  
DB 61 SerLeuTyrLeuPheGlu 66  
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; Sequence 1066, Application US/09922217  
; Patent No. US20020076414A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Yugu  
; APPLICANT: Smith, Carole Lynn  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.

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; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/22,217
; CURRENT FILING DATE: 2001-08-03
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1066
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-922-217-1066

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Query Match: 83.89% Indels: 0
DB: 9 Gaps: 0

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QY 205 TCTCTGTATCTGTTTCAA 222
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RESULT 6
US-09-981-353-192
; Sequence 192, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
; APPLICANT: Lasek, Amy W.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US
; CURRENT APPLICATION NUMBER: US/09/981,353
; CURRENT FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO 192
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CD1
US-09-981-353-192

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Score: 328.00 Matches: 66
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DB: 9 Gaps: 0

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Db 41 ProAsnValProGluAspGluThrLeuIleGlnGlnIleLysAspMetValThrGlnAla 60
QY 205 TCTCTGTATCTGTTTCAA 222
Db 61 SerLeuTyzLeuPheGlu 66

RESULT 7
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; Sequence 2054, Application US/09833245
; Publication No. US20040010134A1
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF546PCT
; CURRENT APPLICATION NUMBER: US/09/833,245
; CURRENT FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229,358

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RESULT 10
US-10-270-595-6
; Sequence 6, Application US/10270595
; Publication No. US20030078409A1
; GENERAL INFORMATION:
; APPLICANT: Magainin Pharmaceuticals, Inc.
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/10/270,595
; PRIOR FILING DATE: 2002-10-16
; PRIOR APPLICATION NUMBER: US/09/623,624
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; Remaining Prior Application data removed - See File Wrapper or PALM.
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; SEQ ID NO 6
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-270-595-6

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Best Local Similarity: 100.00% Mismatches: 0
Query Match: 83.89% Indels: 0
DB: 14 Gaps: 0

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QY 205 TCTCTGTATCTCTTTGAA 222
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RESULT 11
US-10-235-994-26
; Sequence 26, Application US/10235994
; Publication No. US20030101002A1
; GENERAL INFORMATION:
; APPLICANT: Bartha, Gabor
; APPLICANT: Walker, Michael
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS
; FILE REFERENCE: ICVTP012
; CURRENT APPLICATION NUMBER: US/10/235,994
; CURRENT FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: US/10/003,608
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,081
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Human
US-10-235-994-26

Alignment Scores:
Pred. No.: 1.73e-34 Length: 914
Score: 328.00 Matches: 66
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 83.89% Indels: 0
DB: 14 Gaps: 0

US-09-049-696-1 (1-223) x US-10-235-994-26 (1-914)
QY 25 ATGGGGCCATTAAAGATTCTGTGTTTCATCTTGATTCTTCACCTTCTAGAGGGGCCCTG 84
Db 1 MetGlyProPheLysSerValPheIleLeuHleLeuLeuGluGlyAlaLeu 20
QY 85 AGTAATTCACTCATTCACTGAGCAACAACTATGCTATGAAGGCAATGCTTGCATTCGAC 144
Db 21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40
QY 145 CCCAATGTCCAGAGATGAACACTCATTCAACAAATAAGGACATGTGTGCCAGGCA 204
Db 41 ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla 60
QY 205 TCTCTGTATCTCTTTGAA 222
Db 61 SerLeuTyrLeuPheGlu 66

RESULT 12
US-10-060-255-42
; Sequence 42, Application US/10060255
; Publication No. US20030113840A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 25 Human secreted proteins
; FILE REFERENCE: PZ042P1
; CURRENT APPLICATION NUMBER: US/10/060,255
; CURRENT FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: 09/781,417
; PRIOR FILING DATE: 2001-02-13
; PRIOR APPLICATION NUMBER: PCT/US00/22325
; PRIOR FILING DATE: 2000-08-15
; PRIOR APPLICATION NUMBER: 60/149,182
; PRIOR FILING DATE: 1999-08-17
; NUMBER OF SEQ ID NOS: 86
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 42
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-060-255-42

Alignment Scores:
Pred. No.: 1.73e-34 Length: 914
Score: 328.00 Matches: 66
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
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Publication No. US20030232037A1  
; GENERAL INFORMATION:  
; APPLICANT: Groot, Pieter C.  
; APPLICANT: Berghenhegouwen van, Bram J.  
; APPLICANT: Oosterhout van, Antoon J.M.  
; TITLE OF INVENTION: Genes involved in immune related responses observed  
; TITLE OF INVENTION: with asthma  
; FILE REFERENCE: P53837US00  
; CURRENT APPLICATION NUMBER: US/10/369,214  
; PRIOR FILING DATE: 2003-02-15  
; PRIOR APPLICATION NUMBER: EP 00202867.8  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: PCT/NL01/00610  
; PRIOR FILING DATE: 2001-08-16  
; NUMBER OF SEQ ID NOS: 139  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 132  
; LENGTH: 913  
; TYPE: PRT  
; ORGANISM: Mus musculus  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (1)..(913)  
; OTHER INFORMATION: /note="Calcium-activated chloride channels Gob-5"  
US-10-369-214-132

Alignment Scores:  
Pred. No.: 4.88e-25 Length: 913  
Score: 257.00 Matches: 53  
Percent Similarity: 84.85% Conservative: 3  
Best Local Similarity: 80.30% Mismatches: 10  
Query Match: 65.73% Indels: 0  
DB: 15 Gaps: 0

US-09-049-696-1 (1-223) x US-10-369-214-132 (1-913)

QY	25	ATGGGCCATTAAAGTTCGTGTTCATCTTCATCTTCACCTTCTAGAAGGGCCCTG	84
Db	1	MetGluSerLeuIysSerProValPheLeuLeuIleLeuHisLeuLeuGluGlyValLeu	20
QY	85	AGTAATTCATCTCAGCTGACACACATGGCTATGAGGCATTGCTTGCATCGAC	144
Db	21	SerGluSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValIleAlaIleAsp	40
QY	145	CCCAATGTGCCAGACGAAACACACTCATTCAACAATAAGGACATGGTGACCCAGGCA	204
Db	41	HisAspValProGluAspGluAlaLeuIleGlnHisIleLysAspMetValThrGlnAla	60
QY	205	TCTCTATCTGTTCGAA	222
Db	61	SerProTyrLeuPheGlu	66

Search completed: April 21, 2004, 16:38:22  
Job time : 35.1054 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 24, 2004, 00:33:00 ; Search time 20.4982 Seconds  
(without alignments)  
6037.311 Million cell updates/sec

Title: US-09-049-696-1

Perfect score: 223

Sequence: 1 GAATCAGGAGATGATAC.....ATCTGTATCTGTTGAAG 223

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:\*

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2: /cgn2\_6/prodata/2/ina/5B\_COMB.seq.\*  
3: /cgn2\_6/prodata/2/ina/6A\_COMB.seq.\*  
4: /cgn2\_6/prodata/2/ina/6B\_COMB.seq.\*  
5: /cgn2\_6/prodata/2/ina/PCTUS\_COMB.seq.\*  
6: /cgn2\_6/prodata/2/ina/backfile1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	223	100.0	232	4	US-09-016-434-290
2	221.4	99.3	3007	4	US-09-193-562D-27
3	199	89.2	2745	4	US-09-623-624-5
4	138.2	62.0	2931	4	US-09-623-624-1
5	115	51.6	401	3	US-09-221-298-34
6	115	51.6	401	4	US-09-401-064-34
7	100.6	45.1	219	4	US-09-049-698-2
8	100.6	45.1	241	4	US-09-049-698-1
9	100.6	45.1	3043	4	US-09-049-698-16
10	100.6	45.1	3181	4	US-09-049-698-18
11	91	40.8	3317	4	US-09-193-562D-1
12	85.2	38.2	3418	4	US-09-193-562D-29
13	73.8	33.1	3022	4	US-09-193-562D-33
14	50.8	22.8	2773	4	US-09-643-597-358
15	50.8	22.8	2784	4	US-09-643-597-168
16	50.8	22.8	2784	4	US-09-480-884A-168
17	50.8	22.8	2784	4	US-09-542-615A-168
18	50.8	22.8	2784	4	US-09-606-421B-168
19	50.8	22.8	2970	4	US-09-193-562D-31
20	50.8	22.8	3156	4	US-09-919-172-86
21	50.8	22.8	3190	4	US-09-623-624-3
22	50.8	22.8	3362	4	US-09-643-597-167
23	50.8	22.8	3362	4	US-09-480-884A-167
24	50.8	22.8	3362	4	US-09-542-615A-167
25	50.8	22.8	3362	4	US-09-606-421B-167
26	50.8	22.8	3951	4	US-09-643-597-160
27	50.8	22.8	3951	4	US-09-480-884A-160

28	50.8	22.8	3951	4	US-09-542-615A-160	Sequence 160, App
29	50.8	22.8	3951	4	US-09-606-421B-160	Sequence 160, App
30	50.8	22.8	3951	4	US-09-221-107-160	Sequence 160, App
31	50.8	22.8	8031	4	US-09-643-597-254	Sequence 254, App
32	50.8	22.8	8031	4	US-09-480-884A-254	Sequence 254, App
33	50.8	22.8	8031	4	US-09-542-615A-254	Sequence 254, App
34	50.8	22.8	8031	4	US-09-606-421B-254	Sequence 254, App
35	33	14.8	1839	4	US-09-023-655-1367	Sequence 1367, App
36	33	14.8	6924	2	US-08-015-973-2	Sequence 2, Appli
37	33	14.8	6924	1	US-08-448-164-2	Sequence 1, Appli
38	33	14.8	7941	4	US-09-816-703A-1	Sequence 1, Appli
39	31.8	14.3	8930	4	US-09-077-098A-1	Sequence 1, Appli
40	31.4	14.1	1590	4	US-08-771-737-1	Sequence 1, Appli
41	31.4	14.1	1590	4	US-09-954-936-1	Sequence 1, Appli
42	31.4	14.1	1876	2	US-08-466-589-7	Sequence 7, Appli
43	31.4	14.1	1876	2	US-08-700-636-7	Sequence 7, Appli
44	31.4	14.1	1876	3	US-08-467-574-7	Sequence 7, Appli
45	31.4	14.1	1876	4	US-09-217-345-7	Sequence 7, Appli

#### ALIGNMENTS

RESULT 1  
US-09-016-434-290  
; Sequence 290, Application US/09016434  
; Patent No. 6500938  
; GENERAL INFORMATION:  
; APPLICANT: Janice Au-Young  
; APPLICANT: Jeffrey J. Seilhamer  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION  
; NUMBER OF SEQUENCES: 1490  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/016,434  
; FILING DATE: HEREWITH  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Zeller, Karen J.  
; REGISTRATION NUMBER: 37,071  
; REFERENCE/DOCKET NUMBER: PA-0002 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (650) 855-0555  
; TELEFAX: (650) 845-4166  
; INFORMATION FOR SEQ ID NO: 290:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 232 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: COLNNOT22  
; CLONE: 1737775  
US-09-016-434-290

Query Match 100.0%; Score 223; DB 4; Length 232;  
Best Local Similarity 100.0%; Pred. No. 6e-65;



Query Match	51.6%	Score 115;	DB 3;	Length 401;
Best Local Similarity	100.0%;	Pred. No. 7.7e-29;		
Matches 115;	Conservative	0;	Mismatches 0;	Indels 0;
Gaps	0;			

US-09-049-698-2  
; Sequence 2, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITTS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLASS, MICHAEL R.  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; TITLE OF INVENTION: TRACT  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park  
; STATE: IL  
; COUNTRY: USA  
; ZIP: 60064-3500  
; COMPUTER READABLE FORM:



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; FEATURE:
; OTHER INFORMATION: sequence encoding Lu-ECAM-1 and Lu-ECAM-1 associated
; OTHER INFORMATION: protein from bovine endothelial cells
US-09-193-562D-1

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Query Match 40.8%; Score 91; DB 4; Length 3317;  
Best Local Similarity 66.7%; Pred. No. 2.1e-20;  
Matches 146; Conservative 0; Mismatches 70; Indels 3; Gaps 1;  
  
QY 5 TCACAGGAGATGTACAGCAATGGGGCCCAATTAAGAGTTCTGTGTTCACTTCTGATTTCTTC 64  
DB 43 TTACTGTAACTATGTCAGAAATGGTCTCTGTCTGAATGTATTCTGTTCCTTAACCTTTGC 102  
  
QY 65 ACCTTCTAGAGGGGCCCTGAGTAATCTCACTCAGCTGACACACATGCTATGAAG 124  
DB 103 ATCTCTTGCTGTG---AATGAAAGTTCAATGGTAAATTTGATTAAACAATGGTATGATG 159  
  
QY 125 GCATTCTGCTGTGCAATCGACCCCAATGTGCCAGAGATGAAACACTTCATTCAACAAATAA 184  
DB 160 GCATTGTCAATGCAATTAACCCAGTGTGCCAGAGATGAAACACTTCATTGAAACATAA 219  
  
QY 185 AGGACATGTGACCCAGGATCTCTCTATCTGTGTTGAAG 223  
DB 220 AGGAATGTAAGTGAAGCTTCTACTTACCTGTGTTTCATG 258

## RESULT 12

US-09-193-562D-29  
; Sequence 29, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 29  
; LENGTH: 3418  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-193-562D-29

Query Match 38.2%; Score 85.2; DB 4; Length 3418;  
Best Local Similarity 67.4%; Pred. No. 1.8e-18;  
Matches 120; Conservative 0; Mismatches 58; Indels 0; Gaps 0;  
  
QY 46 GTGTTCACTTCACTTCTTCACTTCTAGAGGGCCCTGAGTAATTCATCTCATTGAGCTG 105  
DB 37 GTGATCTCTCTCTATCTCTCTCTCTCTGCTGTATTGAAAAGCTCACTGGTAACCTTG 96  
  
QY 106 AACAAATGGCTATGAAGGCTATGTTGCAATGCCCAATGTGCCAGAGATGAA 165  
DB 97 AATAAATGGATATGATGGCATTTGATGCAATTAATCCAGTGTACCAAGATGAA 156  
  
QY 166 ACACCTATTCAACAATAAAGGACATGTGACCCAGGCATCTCTGTATCTGTTTGAAG 223  
DB 157 AAACCTATTCAACAATAAAGGAATGTAAGTGAATGCAATCTACTCACCTGTTTCATG 214

## RESULT 13

US-09-193-562D-33  
; Sequence 33, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 33  
; LENGTH: 3022  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-09-193-562D-33  
  
Query Match 33.1%; Score 73.8; DB 4; Length 3022;  
Best Local Similarity 72.2%; Pred. No. 1.1e-14;  
Matches 96; Conservative 0; Mismatches 37; Indels 0; Gaps 0;  
  
QY 91 TCACCTATTCACTGAAACAATGGCTATGAAGCATTTGTTGCAATCGACCCCAAT 150  
DB 81 TCCATGGTGCATCTCAACAGCAATGGATACGAGGGTGTGTTGATTCGCCAATTAACCCAGT 140  
  
QY 151 GTGCCAGAGATGAACACTCATTTCAACAAATAAAGGACATGGTGACCCAGGCATCTCTG 210  
DB 141 GTGCCAGAGAGCAAGGCTCATCCAGCATAAAGGAATGGTAATCAAGCTTCTTACC 200  
  
QY 211 TATCTGTTTGAAG 223  
DB 201 TACCTGTTTGAAG 213

## RESULT 14

US-09-643-597-358  
; Sequence 358, Application US/09643597  
; Patent No. 6426072  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Fan, Ligu  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Hosken, Nancy  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Li, Samuel X.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Skeiky, Yasir A.W.  
; APPLICANT: Henderson, Robert A.  
; APPLICANT: McNeill, Patricia D.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; FILE REFERENCE: 210121.455C11  
; CURRENT APPLICATION NUMBER: US/09/643,597  
; CURRENT FILING DATE: 2000-08-21  
; NUMBER OF SEQ ID NOS: 369  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 358  
; LENGTH: 2773  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-643-597-358

Query Match 22.8%; Score 50.8; DB 4; Length 2773;  
Best Local Similarity 62.7%; Pred. No. 4.8e-07;  
Matches 79; Conservative 0; Mismatches 47; Indels 0; Gaps 0;  
  
QY 98 TTCACCTGAACAACAATGCTATGAAGCATTTGTTGCAATCGACCCCAATGTGCCAG 157  
DB 32 TACAGCTTCAAGACAATGGGTATATGATTTGCTCATTTGCAATTAATCTCAGGTACCTG 91  
  
QY 158 AAGATGAACACTCATTTCAACAAATAAAGGACATGGTGACCCAGGCATCTCTGTATCTGT 217  
DB 92 AGAATCAGAACCTCATCTCAACAAATTAAGGAATGATACTGAAGCTTCATTTTACCTAT 151  
  
QY 218 TTGAAG 223  
DB 152 TTAATG 157

## RESULT 15

US-09-643-597-168  
; Sequence 168, Application US/09643597  
; Patent No. 6426072



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; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy R.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Henderson, Robert A.
; APPLICANT: McNeill, Patricia D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.455C11
; CURRENT APPLICATION NUMBER: US/09/643,597
; CURRENT FILING DATE: 2000-08-21
; NUMBER OF SEQ ID NOS: 369
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 168
; LENGTH: 2784
; TYPE: DNA
; ORGANISM: Homo sapien
; US-09-643-597-168

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Query Match      22.8%; Score 50.8; DB 4; Length 2784;
Best Local Similarity 62.7%; Pred. No. 4.8e-07;
Matches 79; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

Qy 98 TTCAGCTGAACACATGGCTATGAAGGCATTGCTTGCATCGACCCCAATGTGCCAG 157
Db 174 TACAGCTTCAAGACAATGGGTATAATGGATTGCTCATTGCAATTAATCCTCAGGTACCTG 233
Qy 158 AAGATGAAACACTCATTCAACAAATAAAGGACATGGTGACCCAGGCATCTCTGTATCTGT 217
Db 234 AGAATCAGAACCTCATCTCAACATTAGGAATGATACTGAAGCTTCAATTTACCTAT 293
Qy 218 TTGAAG 223
Db 294 TTAATG 299

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Search completed: April 24, 2004, 05:00:55  
Job time : 22.4982 secs

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RESULT 1
US-09-193-562D-28
; Sequence 28, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 28
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-193-562D-28

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QY 205 TCTCTGTATCTGTTTAA 222
Db 61 SerProTyrLeuPheGlu 66

RESULT 4
US-09-049-698-41
; Sequence 41, Application US/09049698
; Patent No. 6368792
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA A.
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: HAYDEN, MARK
; APPLICANT: KLASS, MICHAEL R.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL
; TITLE OF INVENTION: TRACT
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/049,698
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/828,856
; FILING DATE: 31-MAR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6068.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 41:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 917 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: No. 6368792e
US-09-049-698-41

Alignment Scores:
Pred. No.: 3.62e-19 Length: 917
Score: 196.50 Matches: 40
Percent Similarity: 78.79% Conservative: 12
Best Local Similarity: 60.61% Mismatches: 13
Query Match: 50.26% Indels: 1
DB: 4 Gaps: 1

US-09-049-696-1 (1-223) x US-09-049-698-41 (1-917)
QY 25 ATGGGGCCATTAAAGAGTCTGTTTCATCTTGTGTTTCTACCTTCTAGAGGGGCCCTG 84
Db 1 MetGlyLeuPheArgGlyPheValPheLeuValLeuHisGlnSer--- 19
85 AGTAATTCACTCATTCAGCTGAACACAACTGCTATGAGGCAATGCTGTTGCAATCGAC 144

QY 205 TCTCTGTATCTGTTTAA 222
Db 60 SerProTyrLeuPheGlu 66

RESULT 5
US-09-193-562D-34
; Sequence 34, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 34
; LENGTH: 902
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-193-562D-34

Alignment Scores:
Pred. No.: 6.86e-18 Length: 902
Score: 187.50 Matches: 38
Percent Similarity: 74.24% Conservative: 11
Best Local Similarity: 57.58% Mismatches: 16
Query Match: 47.95% Indels: 1
DB: 4 Gaps: 1

US-09-049-696-1 (1-223) x US-09-193-562D-34 (1-902)
QY 25 ATGGGGCCATTAAAGAGTCTGTTTCATCTTGTGTTTCTACCTTCTAGAGGGGCCCTG 84
Db 1 MetValProGlyLeuGlnValLeuLeuPheLeuHisLeuGlnAsnThr--- 19
85 AGTAATTCACTCATTCAGCTGAACACAACTGCTATGAGGCAATGCTGTTGCAATCGAC 144
20 GluSerSerMetValHisLeuAsnSerAsnGlyTyrGluGlyValValIleAlaIleAsn 39

QY 145 CCCAATGTGCCAGAGATGAACACACTTCATTCACAAATAAAGGACATGGTGACCCAGCA 204
Db 40 ProSerValProGluAspGluValLeuLeuGluGlnIleGluAspMetValThrAla 59

QY 205 TCTCTGTATCTGTTTAA 222
Db 60 SerThrTyrLeuPheGlu 65

RESULT 6
US-09-193-562D-46
; Sequence 46, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 46
; LENGTH: 903
US-09-193-562D-46
QY 25 ATGGGGCCATTAAAGAGTCTGTTTCATCTTGTGTTTCTACCTTCTAGAGGGGCCCTG 84
Db 1 MetGlyLeuPheArgGlyPheValPheLeuValLeuHisGlnSer--- 19
85 AGTAATTCACTCATTCAGCTGAACACAACTGCTATGAGGCAATGCTGTTGCAATCGAC 144

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QY 205 TCTCTGTATCTGTTTGA 222
Db 61 SerProTyrLeuPheGlu 66

RESULT 4
US-09-049-698-41
; Sequence 41, Application US/09049698
; Patent No. 6368792
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA A.
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: HAYDEN, MARK
; APPLICANT: KLASS, MICHAEL R.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL
; TITLE OF INVENTION: TRACT
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/049,698
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/828,856
; FILING DATE: 31-MAR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6068.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 41:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 917 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: No. 6368792e
US-09-049-698-41

Alignment Scores:
Pred. No.: 3.62e-19 Length: 917
Score: 196.50 Matches: 40
Percent Similarity: 78.79% Conservative: 12
Best Local Similarity: 60.61% Mismatches: 13
Query Match: 50.26% Indels: 1
DB: 4 Gaps: 1

US-09-049-696-1 (1-223) x US-09-049-698-41 (1-917)
QY 25 ATGGGGCCATTAAAGAGTCTGTTTCATCTTGTGTTTACCTTCTAGAGGGGCGCTG 84
Db 1 MetGlyLeuPheArgGlyPheValPheLeuValLeuHisGlnSer--- 19
85 AGTAATTCACTCATTCAGCTGAACACAACTGCTATGAGGCAATGCTGTTGCAATCGAC 144

QY 205 TCTCTGTATCTGTTTGA 222
Db 60 SerThrTyrLeuPheGlu 65

RESULT 5
US-09-193-562D-34
; Sequence 34, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 34
; LENGTH: 902
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-193-562D-34

Alignment Scores:
Pred. No.: 6.86e-18 Length: 902
Score: 187.50 Matches: 38
Percent Similarity: 74.24% Conservative: 11
Best Local Similarity: 57.58% Mismatches: 16
Query Match: 47.95% Indels: 1
DB: 4 Gaps: 1

US-09-049-696-1 (1-223) x US-09-193-562D-34 (1-902)
QY 25 ATGGGGCCATTAAAGAGTCTGTTTCATCTTGTGTTTACCTTCTAGAGGGGCGCTG 84
Db 1 MetValProGlyLeuGlnValLeuLeuPheLeuHisLeuGlnAsnThr--- 19
85 AGTAATTCACTCATTCAGCTGAACACAACTGCTATGAGGCAATGCTGTTGCAATCGAC 144
20 GluSerSerMetValHisLeuAsnSerAsnGlyTyrGluGlyValValIleAlaIleAsn 39
145 CCCAATGTGCCAGAGATGAACACACTTCATTCACAAATAAAGGACATGGTGACCCAGCA 204
40 ProSerValProGluAspGluArgLeuIleProSerIleLeuGluMetValThrGlnAla 59
205 TCTCTGTATCTGTTTGA 222
Db 60 SerThrTyrLeuPheGlu 65

RESULT 6
US-09-193-562D-46
; Sequence 46, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 46
; LENGTH: 903

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QY 214 CTGTTT 219
Db 63 Leuphe 64

RESULT 9
US-09-193-562D-13
; Sequence 13, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 13
; LENGTH: 342
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-13

Alignment Scores:
Pred. No.: 3 69e-17 Length: 342
Score: 181.50 Matches: 35
Percent Similarity: 81.03% Conservative: 12
Best Local Similarity: 60.34% Mismatches: 10
Query Match: 46.42% Indels: 1
DB: 4 Gaps: 1

US-09-049-696-1 (1-223) x US-09-193-562D-13 (1-342)
QY 46 GTGTTTCATCTTGATTTCTTCCACCTTCTAGAGGGCCCTGAGTAATTCACCTCATTACAGCTG 105
Db 8 IleLeuPheLeuThrLeuHisLeuLeuProGly---MetLysSerSerMetValAsnLeu 26
QY 106 AACAAATGGCTATGACGACATTCGTTGCAATCGACCCCAATGTCGACAGAGATGAA 165
Db 27 IleAsnAsnGlyTyrrAspGlyIleValIleAlaIleAsnProSerValProGluAspGlu 46
QY 166 ACATTCATTCAACAAATAAGGACATGTTGACCCAGGCATCTCTGTATCTGTTT 219
Db 47 LysLeuIleGluAsnIleLysGluMetValThrGluAlaSerThrTyrrLeuPhe 64

RESULT 10
US-09-193-562D-11
; Sequence 11, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 11
; LENGTH: 795
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-11

Alignment Scores:
Pred. No.: 4 71e-17 Length: 795
Score: 181.50 Matches: 35
Percent Similarity: 81.03% Conservative: 12
Best Local Similarity: 60.34% Mismatches: 10
Query Match: 46.42% Indels: 1
DB: 4 Gaps: 1
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Percent Similarity: 81.03% Conservative: 12
Best Local Similarity: 60.34% Mismatches: 10
Query Match: 46.42% Indels: 1
DB: 4 Gaps: 1

US-09-049-696-1 (1-223) x US-09-193-562D-11 (1-795)
QY 46 GTGTTTCATCTTGATTTCTTCCACCTTCTAGAGGGCCCTGAGTAATTCACCTCATTACAGCTG 105
Db 8 IleLeuPheLeuThrLeuHisLeuLeuProGly---MetLysSerSerMetValAsnLeu 26
QY 106 AACAAATGGCTATGACGACATTCGTTGCAATCGACCCCAATGTCGACAGAGATGAA 165
Db 27 IleAsnAsnGlyTyrrAspGlyIleValIleAlaIleAsnProSerValProGluAspGlu 46
QY 166 ACATTCATTCAACAAATAAGGACATGTTGACCCAGGCATCTCTGTATCTGTTT 219
Db 47 LysLeuIleGluAsnIleLysGluMetValThrGluAlaSerThrTyrrLeuPhe 64

RESULT 11
US-09-193-562D-12
; Sequence 12, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 12
; LENGTH: 821
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-12

Alignment Scores:
Pred. No.: 4 76e-17 Length: 821
Score: 181.50 Matches: 35
Percent Similarity: 81.03% Conservative: 12
Best Local Similarity: 60.34% Mismatches: 10
Query Match: 46.42% Indels: 1
DB: 4 Gaps: 1

US-09-049-696-1 (1-223) x US-09-193-562D-12 (1-821)
QY 46 GTGTTTCATCTTGATTTCTTCCACCTTCTAGAGGGCCCTGAGTAATTCACCTCATTACAGCTG 105
Db 8 IleLeuPheLeuThrLeuHisLeuLeuProGly---MetLysSerSerMetValAsnLeu 26
QY 106 AACAAATGGCTATGACGACATTCGTTGCAATCGACCCCAATGTCGACAGAGATGAA 165
Db 27 IleAsnAsnGlyTyrrAspGlyIleValIleAlaIleAsnProSerValProGluAspGlu 46
QY 166 ACATTCATTCAACAAATAAGGACATGTTGACCCAGGCATCTCTGTATCTGTTT 219
Db 47 LysLeuIleGluAsnIleLysGluMetValThrGluAlaSerThrTyrrLeuPhe 64

RESULT 12
US-09-193-562D-2
; Sequence 2, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
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; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 2
; LENGTH: 905
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells
US-09-193-562D-2

Alignment Scores:
Pred. No.: 4,89e-17 Length: 905
Score: 181.50 Matches: 35
Percent Similarity: 81.03% Conservative: 12
Best Local Similarity: 60.34% Mismatches: 10
Query Match: 46.42% Indels: 1
DB: 4 Gaps: 1

US-09-049-696-1 (1-223) x US-09-193-562D-2 (1-905)

QY 46 GTGTCATCTTGAATCTTCACTTCTAGAGGGCCCTGAGTAATTCATCTCATCTTCAAGCTG 105
Db 8 IleLeuPheLeuThrLeuHisLeuLeuProGly---MetLysSerSerMetValAsnLeu 26
QY 106 AACACAATGGCTATGAAGGCATTCGTTGCAATCGACCCCAATGTCGACAGATGAA 165
Db 27 IleAsnAsnGlyTyrAspGlyIleValIleAlaIleAsnProSerValProGluAspGlu 46
QY 166 ACACATTCATCAACAATAAGGACATGGTGACCCAGGCATCTCTGTATCTGTTT 219
Db 47 LysLeuIleGluAsnIleLysGluMetValThrGluAlaSerThrTyrLeuPhe 64

RESULT 13
US-09-643-597-169
; Sequence 169, Application US/09643597
; Patent No. 6426072
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Henderson, Robert A.
; APPLICANT: McNeill, Patricia D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: COMPOSITIONS AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455C11
; CURRENT APPLICATION NUMBER: US/09/643,597
; CURRENT FILING DATE: 2000-08-21
; NUMBER OF SEQ ID NOS: 369
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 169
; LENGTH: 592
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-643-597-169

Alignment Scores:
Pred. No.: 2.12e-12 Length: 592
Score: 148.50 Matches: 34
Percent Similarity: 64.10% Conservative: 16
Best Local Similarity: 43.59% Mismatches: 17
Query Match: 37.98% Indels: 11
DB: 4 Gaps: 3

US-09-049-696-1 (1-223) x US-09-643-597-169 (1-592)
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QY 4 ATCACAGGAGATGTACAGCAATGGGGCCATTAAGAGTTCGTGTCATCTTGATCTT 63
Db 1 MetThrGlnArgSerIleAla---GlyProIleCysAsnLeuLysPheValThrLeuLeu 19
QY 64 CACCTTCTAGAAGGGCCCTGAGTAATTCACCTC-----ATTGAGCTG 105
Db 20 -----ValAlaLeuSerSerGluLeuProPheLeuGlyAlaGlyValGlnLeu 35
QY 106 AACACAATGGCTATGAAGGCATTCGTTGCAATCGACCCCAATGTCGACAGATGAA 165
Db 36 GlnAspAsnGlyTyrAsnGlyLeuLeuIleAlaIleAsnProGlnValProGluAsnGln 55
QY 166 ACACATTCATCAACAATAAGGACATGGTGACCCAGGCATCTCTGTATCTGTTT 219
Db 56 AsnLeuIleSerAsnIleLysGluMetIleThrGluAlaSerPheTyrLeuPhe 73

RESULT 14
US-09-480-884A-169
; Sequence 169, Application US/09480884A
; Patent No. 6482597
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Hosken, Nancy A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455C6
; CURRENT APPLICATION NUMBER: US/09/480,884A
; CURRENT FILING DATE: 2001-08-27
; NUMBER OF SEQ ID NOS: 330
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 169
; LENGTH: 592
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-480-884A-169

Alignment Scores:
Pred. No.: 2.12e-12 Length: 592
Score: 148.50 Matches: 34
Percent Similarity: 64.10% Conservative: 16
Best Local Similarity: 43.59% Mismatches: 17
Query Match: 37.98% Indels: 11
DB: 4 Gaps: 3

US-09-049-696-1 (1-223) x US-09-480-884A-169 (1-592)

QY 4 ATCACAGGAGATGTACAGCAATGGGGCCATTAAGAGTTCGTGTCATCTTGATCTT 63
Db 1 MetThrGlnArgSerIleAla---GlyProIleCysAsnLeuLysPheValThrLeuLeu 19
QY 64 CACCTTCTAGAAGGGCCCTGAGTAATTCACCTC-----ATTGAGCTG 105
Db 20 -----ValAlaLeuSerSerGluLeuProPheLeuGlyAlaGlyValGlnLeu 35
QY 106 AACACAATGGCTATGAAGGCATTCGTTGCAATCGACCCCAATGTCGACAGATGAA 165
Db 36 GlnAspAsnGlyTyrAsnGlyLeuLeuIleAlaIleAsnProGlnValProGluAsnGln 55
QY 166 ACACATTCATCAACAATAAGGACATGGTGACCCAGGCATCTCTGTATCTGTTT 219
Db 56 AsnLeuIleSerAsnIleLysGluMetIleThrGluAlaSerPheTyrLeuPhe 73

RESULT 15
US-09-542-615A-169
; Sequence 169, Application US/09542615A
; Patent No. 6518256
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
```



; APPLICANT: Bangur, Chaitanya S.  
 ; APPLICANT: Hosken, Nancy A.  
 ; APPLICANT: Fanger, Gary R.  
 ; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY  
 ; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER  
 ; FILE REFERENCE: 210121.455C8  
 ; CURRENT APPLICATION NUMBER: US/09/542,615A  
 ; CURRENT FILING DATE: 2000-04-14  
 ; NUMBER OF SEQ ID NOS: 350  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 169  
 ; LENGTH: 592  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapien  
 ; US-09-542-615A-169

Alignment Scores:  
 Pred. No.: 2,12e-12 Length: 592  
 Score: 148.50 Matches: 34  
 Percent Similarity: 64.10% Conservative: 16  
 Best Local Similarity: 43.59% Mismatches: 17  
 Query Match: 37.98% Indels: 11  
 DB: 4 Gaps: 3

US-09-049-696-1 (1-223) x US-09-542-615A-169 (1-592)

QY	4	ATCACAGGAGATGTACAGCAATGGGGCCATTAAAGAGTTCTGTGTTTCATCTTGATTCTT	63
Db	1	MetThrGlnArgSerIleAla---GlyProIleCysAsnLeuLysPheValThrLeuLeu	19
QY	64	CACCTTCTAGAAGGGCCCTGAGTAATTCACATC-----ATTGAGCTG	105
Db	20	-----ValAlaLeuSerSerGluLeuProPheLeuGlyAlaGlyValGlnLeu	35
QY	106	AACAACAATGGCTATGAGGCATGTCGTGCAATGCCCAATGTCGCCAGAGATGAA	165
Db	36	GlnAspAsnGlyTyrAsnGlyLeuLeuIleAlaIleAsnProGlnValProGluAsnGln	55
QY	166	ACACTCATTCAACAAATAAGGACATGGTGACCCAGGCATCTCTGTATCTGTTT	219
Db	56	AsnLeuIleSerAsnIleLysGluMetIleThrGluAlaSerPheTyrLeuPhe	73

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 Job time : 13.3796 secs

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OM nucleic - nucleic search, using sw model

Run on: April 24, 2004, 04:05:52 ; Search time 1596.38 Seconds  
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Title: US-09-049-696-20

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

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- 2: /cgn2\_6/ptodata/2/pubpna/PCT\_NEW\_PUB.seq:\*
- 3: /cgn2\_6/ptodata/2/pubpna/US05\_NEW\_PUB.seq:\*
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- 8: /cgn2\_6/ptodata/2/pubpna/US08\_PUBCOMB.seq:\*
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- 11: /cgn2\_6/ptodata/2/pubpna/US09\_PUBCOMB.seq:\*
- 12: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq:\*
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- 15: /cgn2\_6/ptodata/2/pubpna/US10B\_PUBCOMB.seq:\*
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- 18: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq:\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	2983	100.0	3111	9	US-09-823-356-25
3	2983	100.0	3111	15	US-10-235-994-25
4	2983	100.0	3267	9	US-09-764-868-22
5	2971.8	99.6	3007	15	US-10-055-412B-27
6	2966.2	99.4	3311	9	US-09-922-217-1056
7	2966.2	99.4	3311	9	US-09-833-263-1056
8	2966.2	99.4	3311	14	US-10-025-380-1056
9	2966.2	99.4	3311	15	US-10-393-590-11
10	2966.2	99.4	3311	15	US-10-393-590-12
11	2966.2	99.4	3311	15	US-10-393-590-46
12	2966.2	99.4	3311	15	US-10-393-590-47
13	2966.2	99.4	3311	15	US-10-393-567-11
14	2966.2	99.4	3311	15	US-10-393-567-12

15	2966.2	99.4	3311	15	US-10-393-567-46	Sequence 46, Appl
16	2966.2	99.4	3311	15	US-10-393-567-47	Sequence 47, Appl
17	2966.2	99.4	3311	15	US-10-394-087-11	Sequence 11, Appl
18	2966.2	99.4	3311	15	US-10-394-087-12	Sequence 12, Appl
19	2966.2	99.4	3311	15	US-10-394-087-46	Sequence 46, Appl
20	2966.2	99.4	3311	15	US-10-394-087-47	Sequence 47, Appl
21	2828.4	94.8	2854	15	US-10-106-698-1971	Sequence 1971, Ap
22	2814.2	94.3	2867	15	US-10-106-698-351	Sequence 351, App
23	2793.6	93.7	3109	15	US-10-106-698-2111	Sequence 2111, Ap
24	2743	92.0	2745	15	US-10-270-595-5	Sequence 5, Appli
25	2489.2	83.4	4569	10	US-09-867-034-3	Sequence 3, Appli
26	2489.2	83.4	4569	13	US-10-276-115-3	Sequence 3, Appli
27	1764	53.1	2931	15	US-10-270-595-1	Sequence 1, Appli
28	1512	50.7	1512	16	US-10-305-720-850	Sequence 850, App
29	1310.2	43.9	3169	9	US-09-981-353-53	Sequence 53, Appl
30	1310.2	43.9	3169	15	US-10-235-994-15	Sequence 15, Appl
31	1310.2	43.9	3204	15	US-10-345-680-31	Sequence 31, Appl
32	1310.2	43.9	3218	16	US-10-087-080-33	Sequence 33, Appl
33	1308.6	43.9	3043	14	US-10-025-167-16	Sequence 16, Appl
34	1308.6	43.9	3181	14	US-10-025-167-18	Sequence 18, Appl
35	1307.8	43.8	2754	15	US-10-345-680-33	Sequence 33, Appl
36	1304	43.7	3265	9	US-09-989-722-378	Sequence 378, App
37	1304	43.7	3265	9	US-09-989-723-378	Sequence 378, App
38	1304	43.7	3265	9	US-09-989-279-378	Sequence 378, App
39	1304	43.7	3265	9	US-09-989-727-378	Sequence 378, App
40	1304	43.7	3265	9	US-09-989-731-378	Sequence 378, App
41	1304	43.7	3265	9	US-09-989-732-378	Sequence 378, App
42	1304	43.7	3265	9	US-09-991-073-378	Sequence 378, App
43	1304	43.7	3265	9	US-09-990-442-378	Sequence 378, App
44	1304	43.7	3265	9	US-09-991-163-378	Sequence 378, App
45	1304	43.7	3265	9	US-09-993-604-378	Sequence 378, App

ALIGNMENTS

RESULT 1

US-09-823-356-25  
; Sequence 25, Application US/09823356  
; Patent No. US20010025098A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Kaser, Matthew R.  
; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
; FILE REFERENCE: PF-0489-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823,356  
; CURRENT FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/039,307  
; PRIOR FILING DATE: 1998 March 13  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PERL Program  
; SEQ ID NO 25  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775  
US-09-823-356-25

Query Match 100.0%; Score 2983; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2983; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GAAATCACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTTTCATTGATT 60

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10 GAAATCACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTCTCATCTTGATT 69  
QY  
61 CTTTCACTTCTAGAGGGCCCTGAGTAATTCACCTATTACAGTCAACAACTAGCTAT 120  
Db  
70 CTTTCACTTCTAGAGGGCCCTGAGTAATTCACCTATTACAGTCAACAACTAGCTAT 129  
QY  
121 GAAGGCAATTTGCTGCAATCGACCCCAATGTCAGAGAGATGAACACCTCAATCAACAA 180  
Db  
130 GAAGGCAATTTGCTGCAATCGACCCCAATGTCAGAGAGATGAACACCTCAATCAACAA 189  
QY  
181 ATAAAGGACATGGTGACCCAGGATCTCTGTATCTGTGTTTGAAGCTTACAGGAAGCGATT 240  
Db  
190 ATAAAGGACATGGTGACCCAGGATCTCTGTATCTGTGTTTGAAGCTTACAGGAAGCGATT 249  
QY  
241 TATTTTCAAAATGTTGCCAATTTTGAATCTCTGTAACCAATGGAAGCAAGGCTGACTATGTG 300  
Db  
250 TATTTTCAAAATGTTGCCAATTTTGAATCTCTGTAACCAATGGAAGCAAGGCTGACTATGTG 309  
QY  
301 AGACCAAAATTTGAGACCTTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCTCA 360  
Db  
310 AGACCAAAATTTGAGACCTTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCTCA 369  
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Db  
370 GGTAAATGATGAACCTTACACTGAGCAGATGGGCAATGTTGGAGAGAGAGGTGAAGGATC 429  
QY  
421 CACCTCACCTCTGATTTTCAATTCAGGAAAGAAAGTTAGCTGAATATGGACCAAGGTAGG 480  
Db  
430 CACCTCACCTCTGATTTTCAATTCAGGAAAGAAAGTTAGCTGAATATGGACCAAGGTAGG 489  
QY  
481 GCATTTGCTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT 540  
Db  
490 GCATTTGCTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT 549  
QY  
541 GAGAAATTTCTACTTATCCAAATGGAAGATPACAGCAGTAAGATGTTTACGAGGTATTACT 600  
Db  
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601 GGTACAAATGATGAAGAGTGTAGGAGGAGCAGTGTACACCAAGATGCAATTC 660  
Db  
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QY  
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Db  
670 AATAAGTAAACAGGACTCTATGAAGAGATGAGTGTGTTTCTCAATCCCGCCAGAG 729  
QY  
721 GAGAGGCTTCTATAATGTTTGCACAAATGTTGATTTCTATAGTTGAATTTCTGTACAGAA 780  
Db  
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Db  
790 CAAAACCAACAAAGAGCTTCAACAAAGCAAAATCAAAATGCAATCTCGAAGCACA 849  
QY  
841 TGGGAAGTGTCCGTTGATTCTGAGGACTTTAAGAAAACCACTCTATGACAAACAGGCA 900  
Db  
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901 CCAATTTCCCACTTCTCAATGCTGAGATGAGCAAAAGAAATGTTGTTAGTCTTGAC 960  
Db  
910 CCAATTTCCCACTTCTCAATGCTGAGATGAGCAAAAGAAATGTTGTTAGTCTTGAC 969  
QY  
961 AAATCTGAGAGCTGGGACTGGTAAACCGCTCAATCGACTGAATCAAGAGGCGAGCTT 1020  
Db  
970 AAATCTGAGAGCTGGGACTGGTAAACCGCTCAATCGACTGAATCAAGAGGCGAGCTT 1029  
QY  
1021 TTCTCTGCTGCACAGTTGAGCTGGGTTCTGGTTGGATGGTGCACATTTGACAGTGTCT 1080  
Db  
1030 TTCTCTGCTGCACAGTTGAGCTGGGTTCTGGTTGGATGGTGCACATTTGACAGTGTCT 1089  
QY  
1081 GCCCATGTACAAGTGAATCTATACAGATAAACAGTGGCAGTGCAGGAGCACACTCGCC 1140  
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Db  
1090 GCCCATGTACAAGTGAACTCATATACAGATAAACAGTGGCAGTGACAGGAGCACACTCGCC 1149  
QY  
1141 AAAAGATTACCTGACAGAGCTTTCAGGAGGAGCTCCATCTGACAGGGCTTCGATCGGCA 1200  
Db  
1150 AAAAGATTACCTGACAGAGCTTTCAGGAGGAGCTCCATCTGACAGGGCTTCGATCGGCA 1209  
QY  
1201 TTTTACTGTGATTAGGAGAAATATCCAACTGATGATCTGAAATTTGCTGCTGACGGAT 1260  
Db  
1210 TTTTACTGTGATTAGGAGAAATATCCAACTGATGATCTGAAATTTGCTGCTGACGGAT 1269  
QY  
1261 GGGGAGAGCAACACTATTAAGTGGGTCTTTAAACGAGGTCAAAACAAAGTGGTGGCCATCTC 1320  
Db  
1270 GGGGAGAGCAACACTATTAAGTGGGTCTTTAAACGAGGTCAAAACAAAGTGGTGGCCATCTC 1329  
QY  
1321 CACACAGTGGCTTTGGGGCCCTCTGACGCTCAAGAACTAGAGGAGCTCTCCAAAATGACA 1380  
Db  
1330 CACACAGTGGCTTTGGGGCCCTCTGACGCTCAAGAACTAGAGGAGCTCTCCAAAATGACA 1389  
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1381 GGAGGTTTACAGACATATGCTTTCAGATCAAGTTTCAGAACTAATGGCTCTCAATGATCTTTT 1440  
Db  
1390 GGAGGTTTACAGACATATGCTTTCAGATCAAGTTTCAGAACTAATGGCTCTCAATGATCTTTT 1449  
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1441 GGGGCCCTTTTCATCAGGAAATGAGAGTGTCTCTCAGCGCTCCATCCAGCTTTCAGAGTAA 1500  
Db  
1450 GGGGCCCTTTTCATCAGGAAATGAGAGTGTCTCTCAGCGCTCCATCCAGCTTTCAGAGTAA 1509  
QY  
1501 GGATTAACCTTCCAGAACAGCAGCAGTGGATGAATGGCAGAGTATGCTGGACAGCACCGTG 1560  
Db  
1510 GGATTAACCTTCCAGAACAGCAGCAGTGGATGAATGGCAGAGTATGCTGGACAGCACCGTG 1569  
QY  
1561 GGAAAGGACACTTTTGTCTTATCACTTGGACAAACGAGCCTCCCAATCTCTCTCTGG 1620  
Db  
1570 GGAAAGGACACTTTTGTCTTATCACCTGGACAAACGAGCCTCCCAATCTCTCTCTGG 1629  
QY  
1621 GATCCAGTGGACAGAGAGAGTGGCTTGTAGTGGACAAACCAACCAAAATGGCTCTAC 1680  
Db  
1630 GATCCAGTGGACAGAGAGTGGCTTGTAGTGGACAAACCAACCAAAATGGCTCTAC 1689  
QY  
1681 CTCCAATCCCAGACATGCTAAGTGGGCTTGGAAATACAGTCTCAGAGCAGTCA 1740  
Db  
1690 CTCCAATCCCAGACATGCTAAGTGGGCTTGGAAATACAGTCTCAGAGCAGTCA 1749  
QY  
1741 CAAACCTTGACCTTCACTGTCTCACTGCTCCCTGCTGCTCAATGCTACCTGCTCCAAATACA 1800  
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1750 CAAACCTTGACCTTCACTGTCTCACTGCTCCCTGCTGCTCAATGCTACCTGCTCCAAATACA 1809  
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1801 GTGACTTCCAAAACGAAACAGGACACAGCAAAATTCGCCAGCTCTGCTGATTTATGCA 1860  
Db  
1810 GTGACTTCCAAAACGAAACAGGACACAGCAAAATTCGCCAGCTCTGCTGATTTATGCA 1869  
QY  
1861 AATATTCGCCAAGGAGCTCCCAATTTCTCAGGGCCAGTGTACAGCCCTGATTTGAATCA 1920  
Db  
1870 AATATTCGCCAAGGAGCTCCCAATTTCTCAGGGCCAGTGTACAGCCCTGATTTGAATCA 1929  
QY  
1921 GTGAATGGAATAACAGTTTACCTTGGAACTACTTGGAAATAGGAGAGTGTGATGCTACT 1980  
Db  
1930 GTGAATGGAATAACAGTTTACCTTGGAACTACTTGGAAATAGGAGAGTGTGATGCTACT 1989  
QY  
1981 AAGGATGACGGTGTCTACTCAAGGTATTTTCAAACTTATGACAGAAATGGTAGATACAGT 2040  
Db  
1990 AAGGATGACGGTGTCTACTCAAGGTATTTTCAAACTTATGACAGAAATGGTAGATACAGT 2049  
QY  
2041 GTAAAAGTGGGCTCTGGGAGGAGTTAAACGACGCCAGCGAGAGTATCCCCAGAG 2100  
Db  
2050 GTAAAAGTGGGCTCTGGGAGGAGTTAAACGACGCCAGCGAGAGTATCCCCAGAG 2109  
QY  
2101 AGTGGAGCACTGTATACATACCTTGGCTGGATTCAGAAATGATGAATAAATGAATGCCACA 2160  
Db  
2110 AGTGGAGCACTGTATACATACCTTGGCTGGATTCAGAAATGATGAATAAATGAATGCCACA 2169  
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2161 AGACTGAATTAATAGGATGATGTTTCAACAAAGCAAGTGTGTTTTCAGCAGAACTCC 2220  
Db  
2170 AGACTGAATTAATAGGATGATGTTTCAACAAAGCAAGTGTGTTTTCAGCAGAACTCC 2229  
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Qy	2221	TCGGAGGCTCATTTGTGGCTTCTGATGTCGAAAATGCTCCCATACCTGATCTCTTCCCA	2280
Db	2230	TCGGAGGCTCATTTGTGGCTTCTGATGTCGAAAATGCTCCCATACCTGATCTCTTCCCA	2289
Qy	2281	CCTGGCCAAATACCGACCTGGAAGCGGAAATTCACGGGGGCGAGTCTCATTAATCTCGACT	2340
Db	2290	CCTGGCCAAATACCGACCTGGAAGCGGAAATTCACGGGGGCGAGTCTCATTAATCTCGACT	2349
Qy	2341	TGGACAGCTCCTGGGATGATTAATGACCATCGGAACAGCTCACAAGTATATCAATTCGAATA	2400
Db	2350	TGGACAGCTCCTGGGATGATTAATGACCATCGGAACAGCTCACAAGTATATCAATTCGAATA	2409
Qy	2401	AGTACAAGTATCTTTGATCTCAGAGACAAGTCAATGAATCTCTTCAAGTGAATACTTACT	2460
Db	2410	AGTACAAGTATCTTTGATCTCAGAGACAAGTCAATGAATCTCTTCAAGTGAATACTTACT	2469
Qy	2461	GCTCTCATCCAAAGGAAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACAGAAAAACATT	2520
Db	2470	GCTCTCATCCAAAGGAAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACAGAAAAACATT	2529
Qy	2521	ACTTTTCAAAATGSCACAGACTCTTTTCATTTGCTATTCCAGGCTGTTGATGAAGTCGATCTG	2580
Db	2530	ACTTTTCAAAATGSCACAGACTCTTTTCATTTGCTATTCCAGGCTGTTGATGAAGTCGATCTG	2589
Qy	2581	AAATCAGAAATATCCAAACATTGCACGAGTATCTTTGTTTATTCCTCCACAGACTCCGCGCA	2640
Db	2590	AAATCAGAAATATCCAAACATTGCACGAGTATCTTTGTTTATTCCTCCACAGACTCCGCGCA	2649
Qy	2641	GAGACACTAGTCTGTATGAACGCTGCTCTTGTCTTAATATTCATATCAACAGCACC	2700
Db	2650	GAGACACTAGTCTGTATGAACGCTGCTCTTGTCTTAATATTCATATCAACAGCACC	2709
Qy	2701	ATTCTGGCATTCACATTTTAAAAATTATGTGGAAGTGGATAGAGAACTGCGAGCTGTCA	2760
Db	2710	ATTCTGGCATTCACATTTTAAAAATTATGTGGAAGTGGATAGAGAACTGCGAGCTGTCA	2769
Qy	2761	ATAGCCTAGGGCTGAATTTTTGTGCAGATAAATAAATAAATCATTCATCTTTTTTTTGA	2820
Db	2770	ATAGCCTAGGGCTGAATTTTTGTGCAGATAAATAAATAAATCATTCATCTTTTTTTTGA	2829
Qy	2821	TTATAAAATTTTCTAAAATGTATTTTAGACTTCTGTAGGGGGCGATATATACTAAATGTAT	2880
Db	2830	TTATAAAATTTTCTAAAATGTATTTTAGACTTCTGTAGGGGGCGATATATACTAAATGTAT	2889
Qy	2881	ATAGTACATTTATATACTAAATGTATTTCTGTAGGGGGCGATATATACTAAATGTATTTTAGAC	2940
Db	2890	ATAGTACATTTATATACTAAATGTATTTCTGTAGGGGGCGATATATACTAAATGTATTTTAGAC	2949
Qy	2941	TTCTGTAGGGGGCGATAAAATAAATAAATAAATGCTAAACAACTGGGTA	2993
Db	2950	TTCTGTAGGGGGCGATAAAATAAATAAATAAATGCTAAACAACTGGGTA	2992

## RESULT 2

US-09-981-353-191	Qy	721	GAGAAGCCTTCTATAATGTTTGCACAACATGTTGATTTCTATAGTTCGAATCTCTCAGAGA	780
Sequence 191, Application US/09981353				
Patent No. US20020160382A1	Db	730	GAGAAGCCTTCTATAATGTTTGCACAACATGTTGATTTCTATAGTTCGAATCTCTCAGAGA	789
GENERAL INFORMATION:				
APPLICANT: Lasek, Amy W.	Qy	781	CAAAACCAACAACAAAGAGCTCCAAA CAAGCAAAAATCAAAAATGCAATCTCCGAAGCACA	840
APPLICANT: Jones, David A.				
TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER	Db	790	CAAAACCAACAACAAAGAGCTCCAAA CAAGCAAAAATCAAAAATGCAATCTCCGAAGCACA	849
FILE REFERENCE: PA-0038 US				
CURRENT APPLICATION NUMBER: US/09/981,353	Qy	841	TGGCAAGTGAATCCGTGATTTCTGAGGACATTTAAAGAAAACCACTCCTATGACAAACACAGCCCA	900
CURRENT FILING DATE: 2001-10-11				
NUMBER OF SEQ ID NOS: 194	Db	850	TGGCAAGTGAATCCGTGATTTCTGAGGACATTTAAAGAAAACCACTCCTATGACAAACACAGCCCA	909
SOFTWARE: PERL Program				
SEQ ID NO 191	Qy	901	CAAAATCCCAACCTTCTCATTTGTCGAGATTGGACAAGAAATTTGTGTTTATTAGTCCCTTGAC	960
LENGTH: 3111				
TYPE: DNA	Db	910	CAAAATCCCAACCTTCTCATTTGTCGAGATTGGACAAGAAATTTGTGTTTATTAGTCCCTTGAC	969
ORGANISM: Homo sapiens	Qy	961	AAATCTGGAAGCATGGCGACTGGTAAACCGCCTCAATCGACTGAATCAAGCAGAGCCCAAGCTTT	1020
FEATURE:				
NAME/KEY: misc feature				



;; PRIOR APPLICATION NUMBER: US/10/003,608  
;; PRIOR FILING DATE: 2001-11-01  
;; PRIOR APPLICATION NUMBER: 60/245,081  
;; PRIOR FILING DATE: 2000-11-01  
;; NUMBER OF SEQ ID NOS: 30  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 25  
;; LENGTH: 3111  
;; TYPE: DNA  
;; ORGANISM: Human  
US-10-235-994-25

Query Match 100.0%; Score 2983; DB 15; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2983; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	GAATACACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTTTCATCTTGATT	60
DB	10	GAATACACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTTTCATCTTGATT	69
QY	61	CTTCACCTTCTAGAAGGGCCCTGAGTAATTCATCTCAATTCAGCTGAACAACTATGGCTAT	120
DB	70	CTTCACCTTCTAGAAGGGCCCTGAGTAATTCATCTCAATTCAGCTGAACAACTATGGCTAT	129
QY	121	GAAGGCAATGCTGTTGCAATCGACCCCAATGCGCAAGAGTGAACACTCAATTCACAA	180
DB	130	GAAGGCAATGCTGTTGCAATCGACCCCAATGCGCAAGAGTGAACACTCAATTCACAA	189
QY	181	ATAAGGACATGGTGACCCAGCCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT	240
DB	190	ATAAGGACATGGTGACCCAGCCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT	249
QY	241	TATTTCAAAAATGTTGCCATTTTGAATTCCTGAAACATGGAAGCAAGGCTGACTATGTG	300
DB	250	TATTTCAAAAATGTTGCCATTTTGAATTCCTGAAACATGGAAGCAAGGCTGACTATGTG	309
QY	301	AGACCAAACTTGAGACCTTACAAAATGCTGATGTTGCTGCTGAGTCTACTCTCTCA	360
DB	310	AGACCAAACTTGAGACCTTACAAAATGCTGATGTTGCTGCTGAGTCTACTCTCTCA	369
QY	361	GTAATGATGAACCTTACACTGACGAGATGGGCACTGTGGAGAGAGGTTGAAGGATC	420
DB	370	GTAATGATGAACCTTACACTGACGAGATGGGCACTGTGGAGAGAGGTTGAAGGATC	429
QY	421	CACCTCAGCTCTGATTCTTACGAGGAAAAGTTAGCTGAATATGGAACCAAGGTAGG	480
DB	430	CACCTCAGCTCTGATTCTTACGAGGAAAAGTTAGCTGAATATGGAACCAAGGTAGG	489
QY	481	GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT	540
DB	490	GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT	549
QY	541	GAGAAATTCATCTATCCAAATGGAGAAATACAGCAGTAAGATGTTTACAGCAGTATTACT	600
DB	550	GAGAAATTCATCTATCCAAATGGAGAAATACAGCAGTAAGATGTTTACAGCAGTATTACT	609
QY	601	GGTACAAATGTAGTAAAGAGTGTAGGAGGCGAGCTGTTTACACCAAAAAGATGCACATTC	660
DB	610	GGTACAAATGTAGTAAAGAGTGTAGGAGGCGAGCTGTTTACACCAAAAAGATGCACATTC	669
QY	661	ATAAAGTAAACAGGACTCTATGAAAAGAGTGTAGTGTGTTTCTCCAAATCCCGCCAGAG	720
DB	670	ATAAAGTAAACAGGACTCTATGAAAAGAGTGTAGTGTGTTTCTCCAAATCCCGCCAGAG	729
QY	721	GAGAGGCTTCTATATGTTTGCACAAATGTTGATTTCTATAGTTGAATTTCTGTACAGAA	780
DB	730	GAGAGGCTTCTATATGTTTGCACAAATGTTGATTTCTATAGTTGAATTTCTGTACAGAA	789
QY	781	CAAAACCAACAAAGAGCTCTCAACAGCAAAATCAAAAATGCAATCTCCGAGGACCA	840
DB	790	CAAAACCAACAAAGAGCTCTCAACAGCAAAATCAAAAATGCAATCTCCGAGGACCA	849
QY	841	TGGGAAGTGATCCGTTGATTTCTGAGGACTTTAAGAAAAACCACTCTATGACAAACAGCCA	900

DB	850	TGGGAAGTGATCCGTGATTTCTGAGCACTTTAAGAAAAACCACTCTATGACAAACAGACCA	909
QY	901	CCAAATCCCACTCTCTCATTTGTCAGATTGACAAAAGAAATTTGTGTTTAGTCTTGAC	960
DB	910	CCAAATCCCACTCTCTCATTTGTCAGATTGACAAAAGAAATTTGTGTTTAGTCTTGAC	969
QY	961	AAATCTGGAAGCATGGCGACTGGTAAACCGCTCAATCGACTGAATCAAGCAGGCCAGCTT	1020
DB	970	AAATCTGGAAGCATGGCGACTGGTAAACCGCTCAATCGACTGAATCAAGCAGGCCAGCTT	1029
QY	1021	TTCTCTGCTGCACAGATTGAGCTGGGCTCTGGGTTGGGATGGTGACATTTGACAGTCT	1080
DB	1030	TTCTCTGCTGCACAGATTGAGCTGGGCTCTGGGTTGGGATGGTGACATTTGACAGTCT	1089
QY	1081	GCCCATGTACAAAGTGAATCTATACAGATAAAACAGTGGCAGTGACAGGACACACTCGCC	1140
DB	1090	GCCCATGTACAAAGTGAATCTATACAGATAAAACAGTGGCAGTGACAGGACACACTCGCC	1149
QY	1141	AAAAATTACCTGCAGCAGCTTCAGAGGGACGTCCATCTGCAGCGGCTTCGATCGGCA	1200
DB	1150	AAAAATTACCTGCAGCAGCTTCAGAGGGACGTCCATCTGCAGCGGCTTCGATCGGCA	1209
QY	1201	TTTACTGTGATTAGGAAGAAATATCCNACTGATGATCTGAAATTTGTGCTGACGGAT	1260
DB	1210	TTTACTGTGATTAGGAAGAAATATCCNACTGATGATCTGAAATTTGTGCTGACGGAT	1269
QY	1261	GGGGAAGACCAACTATTAAGTGGTGTCTTAAACGAGGTCAAAACAAAGTGGTGCATCATC	1320
DB	1270	GGGGAAGACCAACTATTAAGTGGTGTCTTAAACGAGGTCAAAACAAAGTGGTGCATCATC	1329
QY	1321	CACACAGTGCCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAGCTGCCAAAATGACA	1380
DB	1330	CACACAGTGCCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAGCTGCCAAAATGACA	1389
QY	1381	GGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAAGAACTAGAGGAGCTGCCAAAATGACA	1440
DB	1390	GGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAAGAACTAGAGGAGCTGCCAAAATGACA	1449
QY	1441	GGGGCCCTTTCAATCAGGAATGGAGCTGCTCTCAGCGCTCCATCCAGCTTCGAGAGTAAG	1500
DB	1450	GGGGCCCTTTCAATCAGGAATGGAGCTGCTCTCAGCGCTCCATCCAGCTTCGAGAGTAAG	1509
QY	1501	GGATTAACCTCCAGAACAGCCAGTGGATGAATGGACAGTATCGTGACAGCACCGTG	1560
DB	1510	GGATTAACCTCCAGAACAGCCAGTGGATGAATGGACAGTATCGTGACAGCACCGTG	1569
QY	1561	GGAAAGGACATTTGTTTCTTATCACTTGGACAAACGAGCGCTCCCAAAATCCTTCTCTGG	1620
DB	1570	GGAAAGGACATTTGTTTCTTATCACTTGGACAAACGAGCGCTCCCAAAATCCTTCTCTGG	1629
QY	1621	GATCCAGTGGACAGCAAGGAGTGGCTTTAGTGGACAAAACACCAAAAATGGCCTAC	1680
DB	1630	GATCCAGTGGACAGCAAGGAGTGGCTTTAGTGGACAAAACACCAAAAATGGCCTAC	1689
QY	1681	CTCCAAATCCCAAGCAATTTGCTAAGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA	1740
DB	1690	CTCCAAATCCCAAGCAATTTGCTAAGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA	1749
QY	1741	CAAACTTTGACCTGATGTCAGTCCCGTGGTCCAAATGCTACCTGCTCCAAATTA	1800
DB	1750	CAAACTTTGACCTGATGTCAGTCCCGTGGTCCAAATGCTACCTGCTCCAAATTA	1809
QY	1801	GTGACTTCCAAAACCAAGGACACCAAGGACCAAGGAAATTTCCCGAGCCCTCTGGTAGTTATGA	1860
DB	1810	GTGACTTCCAAAACCAAGGACACCAAGGACCAAGGAAATTTCCCGAGCCCTCTGGTAGTTATGA	1869
QY	1861	AAATTTGCGCAGGAGCCCTCCCAATTTCTCAGGGCAGTGTCAAGCCCTGATTGAATCA	1920
DB	1870	AAATTTGCGCAGGAGCCCTCCCAATTTCTCAGGGCAGTGTCAAGCCCTGATTGAATCA	1929
QY	1921	GTGAATGGAATAACAGTTTACCTTGGAACTTACTGGATAATGGAGAGGCTGCTGATCTACT	1980

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QY 2101 AGTGAGCAGCTGTACATACCTGGCTGGATTTGAGATGATGAATGAATGAATGCCACA 2160
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QY 2161 AGACCTGAAATTAATAAGATGATGTTCAACACAGCAAGTGTGTTTCAGCAGACATCC 2220
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QY 2221 TCGGAGGCTCATTTGTGGCTTCTGATGTCCTCAAAATGCTCCCATACCTGATCTCTCCCA 2280
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Db 2350 TGGCAGCTCTCGGGGATGATATACCATGGAACAGCTCAACAGTATATCATTCGAATA 2409
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Db 2410 AGTACAAGTATTTCTTGATCTCAGAGACAAAGTTCAATGAATCTCTTCAAGTGAATACTACT 2469
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Db 2530 ACTTTTGAATGSCACAGATCTTTTTCATTTGCTATTCAGGCTGTTGATAAGTGCATCTG 2589
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Db 2590 AAATCAGAAATATCAACATTCAGAGATATCTTTGTTTATTCCTCCACAGACTCCGCCA 2649
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Db 2710 ATTCCTGGCATTCACATTTTAAATTTATGTGGAATGAGTAGGAACTGCAGCTGTCA 2769
QY 2761 ATAGCTAGGCTGAATTTTGTGAGATAAATAAATAAATCAATCATCTCTTTTGTGA 2820
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Db 2950 TTCCTGTAGGGGCGATATAAATAAATAAATGCTAAACCACTGGGTA 2992
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RESULT 4

US-09-764-868-22

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; Sequence 22, Application US/09764868
; Patent No. US20020168711A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT232
; CURRENT APPLICATION NUMBER: US/09/764,868
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1510
; SOFTWARE: Patencin Ver. 2.0
; SEQ ID NO 22
; LENGTH: 3267
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-868-22
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Query Match 100.0%; Score 2983; DB 9; Length 3267;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2983; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 11 GAAATCACAGGAGATGTACAGCAATGGGCCATTTAAGAGTTCTGTGTTTCATCTTGATT 70
QY 61 CTTCACTCTTAGAAGGGGCCCTCAGTAATTCATCTCATTAGCTGAACAAACAATGGCTAT 120
Db 71 CTTCACTCTTAGAAGGGGCCCTCAGTAATTCATCTCATTAGCTGAACAAACAATGGCTAT 130
QY 121 GAAGCATTTGCTGTGCAATCGACCCCAATGTCGAGAAAGATGAACAATCATTCACAA 180
Db 131 GAAGCATTTGCTGTGCAATCGACCCCAATGTCGAGAAAGATGAACAATCATTCACAA 190
QY 181 ATAAGGACATGTTGACCCAGGCTCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT 240
Db 191 ATAAGGACATGTTGACCCAGGCTCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT 250
QY 241 TATTTCAAAAATGTTGCCATTTTCATTCCTCAAAATGGAAGACAAAGCGTACATATGTG 300
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QY 301 AGACCAAACTTGAGACTACAAAAATGCTGATGTTGTTGTTGCTAGTCTACTCTCCA 360
Db 311 AGACCAAACTTGAGACTACAAAAATGCTGATGTTGTTGTTGCTAGTCTACTCTCCA 370
QY 361 GGTATGATGAACCTTACACTGAGCAGATGGGCACTGTGAGAGAAAGGTTGAAGGATC 420
Db 371 GGTATGATGAACCTTACACTGAGCAGATGGGCACTGTGAGAGAAAGGTTGAAGGATC 430
QY 421 CACCTCACTCTGATTTTCATTCAGGAAAAAAGTTAGCTGAATATGGACCAAGGTAGG 480
Db 431 CACCTCACTCTGATTTTCATTCAGGAAAAAAGTTAGCTGAATATGGACCAAGGTAGG 490
QY 481 GCATTTGCTCATTAGTGGGCTCATCTAGATGGGAGTATTTGACGAGTACAATATGAT 540
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QY 541 GAGAAATCTACTTATCCAATGGAAGATACAAGCAGTAAAGTGTTCAGCAGGTATTACT 600
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QY 661 AATAAGTAAACAGGACTCTATGAAAAAGGATGTGAGTTTGTCTCCAATCCCGCAGACG 720
Db 671 AATAAGTAAACAGGACTCTATGAAAAAGGATGTGAGTTTGTCTCCAATCCCGCAGACG 730
QY 721 GAGAGGCTTCTATTAATGTTTGCACACATCTGATCTTATAGTTGAATTCGTACAGAA 780
Db 731 GAGAGGCTTCTATTAATGTTTGCACACATCTGATCTTATAGTTGAATTCGTACAGAA 790
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QY 781 CAAACCAACAAAGAGCTCCAAACAGCAAAATCAAAATGCAATCTCCGAGCACA 840  
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QY 841 TGGGAAGTCATCCGTGATTCGAGGACTTTAAGAAAACCACTCCCTATGACACACAGCCA 900  
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Db 1931 GTGAATGGAAAAACAGTTTACCTTGGAACTACTTGGAAATATGGAGCAGGTGCTGATGCTACT 1990  
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Qy 2401 AGTACAAGTATCTTTGATCTCAGACAAAGTTCATGAAATCTCTTCAAGTGAATACTACT 2460  
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Qy 2821 TTATAAAATTTCTAAAATGTTATTTTAGACTTCTGTAGGGGGCGGATATCTAAATGTTAT 2880

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## RESULT 6

US-09-922-217-1056  
; Sequence 1056, Application US/09922217  
; Patent No. US20020076414A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Yugu  
; APPLICANT: Smith, Carole Lynn  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.471C13  
; CURRENT APPLICATION NUMBER: US/09/922,217  
; CURRENT FILING DATE: 2001-08-03  
; NUMBER OF SEQ ID NOS: 1124  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1056  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-922-217-1056

Query Match 99.4%; Score 2966.2; DB 9; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 2979; Conservative 0; Mismatches 3; Indels 1; Gaps 1;  
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Qy 61 CTTTACCTTTAGAGGGGCCCTGAGTAATTCATCTCATTGAGTGAACAACTATGCTAT 120  
Db 388 CTTTACCTTTAGAGGGGCCCTGAGTAATTCATCTCATTGAGTGAACAACTATGCTAT 447  
Qy 121 GAAGCATTGCTGTGCAATGACCCCAATGTCAGCAAGATGAACACTCATTCAACAA 180  
Db 448 GAAGCATTGCTGTGCAATGACCCCAATGTCAGCAAGATGAACACTCATTCAACAA 507  
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Db 508 ATAAAGGACATGTCACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGAAAGCGATT 567  
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Db 628 AGACCAAACTTGAGACCTCAAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCA 687  
Qy 361 GGTATGATGACCCCTACACTGAGCAGATGGCACTCTGGAGAGAGGCTCAAGGATC 420  
Db 688 GGTATGATGACCCCTACACTGAGCAGATGGCACTCTGGAGAGAGGCTCAAGGATC 747

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DB 988 AATAAGTTACAGGACTCTATGAAAGAGATGTAGTTTCTCCAATCCCGCCAGAG 1047  
QY 721 GAGAGGCTTCTATATGTTTGCACAAATGTTGATTTCTATAGTTGAATTTCTGTACAGAA 780  
DB 1048 GAGAGGCTTCTATATGTTTGCACAAATGTTGATTTCTATAGTTGAATTTCTGTACAGAA 1107  
QY 781 CAAAAACCAACAAAGAGCTCCAAACAGCAAAATCAAAATGCAATCTCCGAAAGCACA 840  
DB 1108 CAAAAACCAACAAAGAGCTCCAAACAGCAAAATCAAAATGCAATCTCCGAAAGCACA 1167  
QY 841 TGGGAAGTGATCCGTGATTTCTGAGGACTTTAAGAAAAACCACTCTATGACAAACAGGCA 900  
DB 1168 TGGGAAGTGATCCGTGATTTCTGAGGACTTTAAGAAAAACCACTCTATGACAAACAGGCA 1227  
QY 901 CCAATCCCACTTCTCATTTGTCAGATTTGACAAAGAAATTTGTGTTAGTCTTTCAC 960  
DB 1228 CCAATCCCACTTCTCATTTGTCAGATTTGACAAAGAAATTTGTGTTAGTCTTTCAC 1287  
QY 961 AAATCTGGAAGCATGCGCATGCTTAACCGCTCAATCGACTCAATCAAGAGCGCCAGCTT 1020  
DB 1288 AAATCTGGAAGCATGCGCATGCTTAACCGCTCAATCGACTCAATCAAGAGCGCCAGCTT 1347  
QY 1021 TTCTCTGTCAGACAGTTGAGCTGGGCTCTGGGTTGGGATGGTGACATTTGACAGTCT 1080  
DB 1348 TTCTCTGTCAGACAGTTGAGCTGGGCTCTGGGTTGGGATGGTGACATTTGACAGTCT 1407  
QY 1081 GCCCATGTACAAGTGAATCTATACAGATAACAGTGGCAGTGACAGGACACACTCGCC 1140  
DB 1408 GCCCATGTACAAGTGAATCTATACAGATAACAGTGGCAGTGACAGGACACACTCGCC 1467  
QY 1141 AAAAGATTACCTGCAGCAGCTTCAGAGGAGCTCCATCTGAGCGGGCTTCGATCGGCA 1200  
DB 1468 AAAAGATTACCTGCAGCAGCTTCAGAGGAGCTCCATCTGAGCGGGCTTCGATCGGCA 1527  
QY 1201 TTCTCTGATTTAGGAAGAAATATCCAACTGATGATCTGAAATTTGTCTGCTGACGAT 1260  
DB 1528 TTCTCTGATTTAGGAAGAAATATCCAACTGATGATCTGAAATTTGTCTGCTGACGAT 1587  
QY 1261 GGGGAAGACAAACATATAGTGGTGTCTTACGAGGCTCAACAAAGTGGTGGCCATATC 1320  
DB 1588 GGGGAAGACAAACATATAGTGGTGTCTTACGAGGCTCAACAAAGTGGTGGCCATATC 1647  
QY 1321 CACACAGTCGCTTTGGGGCCCTCTCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACA 1380  
DB 1648 CACACAGTCGCTTTGGGGCCCTCTCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACA 1707  
QY 1381 GGAGGTTTACAGACATATGCTTTCAGATCAAGTTTCAGAACATGGCTCATTTGATGCTTTT 1440  
DB 1708 GGAGGTTTACAGACATATGCTTTCAGATCAAGTTTCAGAACATGGCTCATTTGATGCTTTT 1767  
QY 1441 GGGGCCCTTTTCATCAGGAAATGGAGTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAA 1500  
DB 1768 GGGGCCCTTTTCATCAGGAAATGGAGTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAA 1827  
QY 1501 GGATTAACCTCCAGAAACAGCCAGTGGATGGAATGGACAGTGTATCGTGGACAGCACCGTG 1560

DB 1828 GGATTAACCTCCAGAACAGCCAGTGGATGAATGGCAGTGTCTGGACAGCACCGTG 1887  
QY 1561 GGAAGGACACTTTGTTTCTTATCACCTGGACACAGCAGCTCCCAAAATCTTCTCTCG 1620  
DB 1888 GGAAGGACACTTTGTTTCTTATCACCTGGACACAGCAGCTCCCAAAATCTTCTCTCG 1947  
QY 1621 GATCCAGTGACAGAGCAAGGTGGCTTCTAGTGGACAAAAACCAAAAATGGCCTAC 1680  
DB 1948 GATCCAGTGACAGAGCAAGGTGGCTTCTAGTGGACAAAAACCAAAAATGGCCTAC 2007  
QY 1681 CTCCAAAATCCAGGCATTTGCTTAAGTTTGGCACTTTGGAAATACAGTCTGCAAGCAAGCTCA 1740  
DB 2008 CTCCAAAATCCAGGCATTTGCTTAAGTTTGGCACTTTGGAAATACAGTCTGCAAGCAAGCTCA 2067  
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DB 2068 CAAACCTTGACCTGATCTGTCACGTCCGTGGTCCAAATGCTACCTGCTCCCAATTACA 2127  
QY 1801 GTGACTTCCAAAAACGAACAGGACACAGCAAAATTTCCCGAGCTCTCTGTAGTTTATGCA 1860  
DB 2128 GTGACTTCCAAAAACGAACAGGACACAGCAAAATTTCCCGAGCTCTCTGTAGTTTATGCA 2187  
QY 1861 AATATTTCCCAAGGAGCCTCCCAATTTCTCAGGCGCAGTGTACAGCCCTGATTGAATCA 1920  
DB 2188 AATATTTCCCAAGGAGCCTCCCAATTTCTCAGGCGCAGTGTACAGCCCTGATTGAATCA 2247  
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DB 2248 GTGAATGGAATAACAGTTTACCTTGGAACTACTTGGAAATATGAGCAGAGTGTGATCTACT 2307  
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QY 2041 GTAAAAAGTCCGGCTCTGGGAGGAGTTAAACGACGACAGCGAGAGTGTATCCCCAGAG 2100  
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DB 2428 AGTGAGACACTGTATACATCTGGCTGGATTTGAGAAATGATGAATACAAATGGAATCCACA 2487  
QY 2161 AGACTGAAATTAATAAGGATGATTTCAACAGCAAGCAAGTGTGTTTCAGCAGAACATCC 2220  
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DB 2668 TGGACAGCTCTCGGGATGATTTAGCCATGGAACAGCTCAAGTATATCATTTGGAATA 2727  
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DB 2848 ACTTTTGAATGACACAGATCTTTTCAATCTGATTTCAAGCTGTGTAAGTGCATCTG 2907  
QY 2581 AAATCAGAAATATCCAAATTCAGCAGGATCTTTTGTGTTTATTTCTCTCCACAGACTCCGCA 2640



1708 GGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAAATGGGCTCATTCATGCTTTT 1767  
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 1768 GGGGCCCTTTTCATCAGGAATGAGAGTGTCTCAGCGCTCCATCCAGCTTGGAGTAAG 1827  
 1501 GGATTAACCTCCAGAACCGAGTGGATGAATGGACAGTGTATCTGTGACAGCACCCTG 1560  
 1828 GGATTAACCTCCAGAACCGAGTGGATGAATGGACAGTGTATCTGTGACAGCACCCTG 1887  
 1561 GGAAGGACACTTTTCTTATCCTCGGACACAGCAGCTCCCAAAATCTTCTCTGG 1620  
 1888 GGAAGGACACTTTTCTTATCCTCGGACACAGCAGCTCCCAAAATCTTCTCTGG 1947  
 1621 GATCCAGTGGACAGAAAGGTTGGCTTGTAGTGACAAAAACACCAAAATGGCCTAC 1680  
 1948 GATCCAGTGGACAGAAAGGTTGGCTTGTAGTGACAAAAACACCAAAATGGCCTAC 2007  
 1681 CTCCTCAATCCAGGCAATTCAGGTTGGCTTGTAGTGACAAAAACACCAAAATGGCCTAC 1740  
 2008 CTCCTCAATCCAGGCAATTCAGGTTGGCTTGTAGTGACAAAAACACCAAAATGGCCTAC 2067  
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 2128 GTGACTTCCAAACGAAACAGGACACAGCAAAATCCCGAGCCCTGCTGAGTTATGCA 2187  
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 2188 AATATTCCGACAGGAGCTCCCAATTCAGGCGCAGTGTACAGCCCTGATTTGAATCA 2247  
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 2248 GTGAATGGAAAAACAGTTACTTGGAACTACTGGATAATGGAGCGGTGCTGATGCTACT 2307  
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 2308 AAGGATGACGGTGTCTACTCAGAGTATTTCAAACTTATGACAGCAATGGTATGATCAGT 2367  
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 2368 GTAAAGTGGCGCTCTGGAGAGTTAAGCGAGCAGAGGAGTATCCCGAGCAG 2427  
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 2428 AGTGGAGCACTGTACATACCTGGCTGGATTTGAGAAATGATGAATCAATGGAATCCACCA 2487  
 2161 AGACCTGAAATTAATGAAGATGATTTCAACAGCAAGTGTGTTTCAGCAGAACATCC 2220  
 2488 AGACCTGAAATTAATGAAGATGATTTCAACAGCAAGTGTGTTTCAGCAGAACATCC 2547  
 2221 TCGGGAGGCTCATTTGCTGCTTCTGATGTCCTCAAAATGCTCCCATCTGATCTCTTCCCA 2280  
 2548 TCGGGAGGCTCATTTGCTGCTTCTGATGTCCTCAAAATGCTCCCATCTGATCTCTTCCCA 2607  
 2281 CTGCGCAAAATCACCGACCTGAGCGGAAATTCACGGGGGAGTGTCTCAATTCGACT 2340  
 2608 CTGCGCAAAATCACCGACCTGAGCGGAAATTCACGGGGGAGTGTCTCAATTCGACT 2667  
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 2668 TGGACAGCTCTCGGGATGATTTAGCAATGGAAGTGTGATGATGATGATGATGATGATGAT 2727  
 2401 AGTACAGTATTTCTGATCTCAGACAAAGTTCATGAATCTCTCAAGTGAATCTACT 2460  
 2728 AGTACAGTATTTCTGATCTCAGACAAAGTTCATGAATCTCTCAAGTGAATCTACT 2787  
 2461 GCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTTAAACAGAAAAACATT 2520

2788 GCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTTAAACCAGAAAAACATT 2847  
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 2848 ACTTTTGAATAATGGACAGATCTTTTTCATTTGCTATTTCAAGGCTGTTGATGAAGTCCGATCTG 2907  
 2581 AAATCAGAAATATCAACATTTGCACAGATATCTTTTGTGTTTATTCCTCCACAGACTCCGCCA 2640  
 2908 AAATCAGAAATATCAACATTTGCACAGATATCTTTTGTGTTTATTCCTCCACAGACTCCGCCA 2967  
 2641 GAGACACCTAGTCTCTGATGAACAGTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTG 2700  
 2968 GAGACACCTAGTCTCTGATGAACAGTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTG 3027  
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 3028 ATTCTGTCGATTTCAATTTTAAATTTATGTTGAAGTGTGATGAGGAAGTGTGATGAGGAGTGTG 3087  
 2761 ATAGCTTAGGGCTGAATTTTGTTCAGATAAAATAAATAAATCAATTCATCTCTTTTGTGA 2820  
 3088 ATAGCTTAGGGCTGAATTTTGTTCAGATAAAATAAATAAATCAATTCATCTCTTTTGTGA 3146  
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 3147 TTATATAATTTTCTAAATGTTATTTTAGACTTCTCTGTTAGGGGGCGATATATCTAAATGTTAT 3206  
 2881 ATAGTACATTTATATCTAAATGTTATTTCTGTTAGGGGGCGATATATCTAAATGTTATTTAGAC 2940  
 3207 ATAGTACATTTATATCTAAATGTTATTTCTGTTAGGGGGCGATATATCTAAATGTTATTTAGAC 3266  
 2941 TTCTCTGTTAGGGGGCGATATAAATAAATAAATAAATGCTAAACAACTGGGTA 2983  
 3267 TTCTCTGTTAGGGGGCGATATAAATAAATAAATAAATGCTAAACAACTGGGTA 3309

RESULT 8  
 US-10-025-380-1056  
 ; Sequence 1056, Application US/10025380  
 ; Publication No. US20020182191A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Xu, Jiangchun  
 ; APPLICANT: Lodes, Michael J.  
 ; APPLICANT: Secrist, Heather  
 ; APPLICANT: Benson, Darin R.  
 ; APPLICANT: Meagher, Madeleine Joy  
 ; APPLICANT: Stolk, John A.  
 ; APPLICANT: Wang, Jiongong  
 ; APPLICANT: Jiang, Yugu  
 ; APPLICANT: Smith, Carole L.  
 ; APPLICANT: King, Gordon E.  
 ; APPLICANT: Wang, Aijun  
 ; APPLICANT: Clapper, Jonathan D.  
 ; APPLICANT: Skeiky, Yahir A. W.  
 ; APPLICANT: Fanger, Gary R.  
 ; APPLICANT: Vedvick Thomas S.  
 ; APPLICANT: Carter, Darick  
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
 ; FILE REFERENCE: 210121.471C14  
 ; CURRENT APPLICATION NUMBER: US/10/025,380  
 ; CURRENT FILING DATE: 2001-12-19  
 ; NUMBER OF SEQ ID NOS: 1129  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 1056  
 ; LENGTH: 3311  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-10-025-380-1056

Query Match 99.4%; Score 2966.2; DB 14; Length 3311;  
 Best Local Similarity 99.9%; Pred. No. 0;  
 Matches 2979; Conservative 0; Mismatches 3; Indels 1; Gaps 1;



QY 1 GAAATCACAAGGAGATGTACAGCAATGGGGCCATTTAAAGATTCTGTGTTTCATCTTGATT 60  
DB 328 GGAATCACAGGGAGATGTACAGCAATGGGGCCATTTAAAGATTCTGTGTTTCATCTTGATT 387  
QY 61 CTTACCTTCTAGAAGGGCCCTGAGTAAATTCATCTCATTACAGCTGAACAACTATGCTAT 120  
DB 388 CTTACCTTCTAGAAGGGCCCTGAGTAAATTCATCTCATTACAGCTGAACAACTATGCTAT 447  
QY 121 GAAGGCATTGTCTGTCATTCGACCCCAATGTGCCAGAAAGATGAACACACTCATTCACAA 180  
DB 448 GAAGGCATTGTCTGTCATTCGACCCCAATGTGCCAGAGATGAACACACTCATTCACAA 507  
QY 181 ATAAAGGACATGTGTACCCAGGCATCTCTGTATCTGTTTGAAGTACAGGAAGCGATT 240  
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QY 241 TATTTCAAAAATGTTGCCATTTTGAATTCCTGAAACATGGAACAAAGCTGACTATGTG 300  
DB 568 TATTTCAAAAATGTTGCCATTTTGAATTCCTGAAACATGGAACAAAGCTGACTATGTG 627  
QY 301 AGACCAAAATTTGAGACCTACAAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCTCCA 360  
DB 628 AGACCAAAATTTGAGACCTACAAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCTCCA 687  
QY 361 GGTAAATGTAACCTTACACTGAGCAGATGGGCAACTGTGGAGAGAAAGGTGAAGGATC 420  
DB 688 GGTAAATGTAACCTTACACTGAGCAGATGGGCAACTGTGGAGAGAAAGGTGAAGGATC 747  
QY 421 CACCTCACCTCTGATTTTCATTCGACGAAAAAAGTTAGCTGAAATATGGACCAACAGGTAGG 480  
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DB 808 GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT 867  
QY 541 GAGAAATTTACTATTCAATGGAAGAAATACAGCAGTAAAGTGTTCAGCAGGTATTACT 600  
DB 868 GAGAAATTTACTATTCAATGGAAGAAATACAGCAGTAAAGTGTTCAGCAGGTATTACT 927  
QY 601 GGTACAAATGTAGTAAAGTGTACGGAGGCGCTGTTTACCAAAAGATGCACATTC 660  
DB 928 GGTACAAATGTAGTAAAGTGTACGGAGGCGCTGTTTACCAAAAGATGCACATTC 987  
QY 661 AATAAAGTAAACAGACTCTATGAAAGAGTGTAGTGTCTTCTCAATCCCGCCAGAG 720  
DB 988 AATAAAGTAAACAGACTCTATGAAAGAGTGTAGTGTCTTCTCAATCCCGCCAGAG 1047  
QY 721 GAGAGGCTTCTATAATGTTTGACAAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAA 780  
DB 1048 GAGAGGCTTCTATAATGTTTGACAAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAA 1107  
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DB 1108 CAAAACCAACAAGAAGCTCMAACAAGCAAAATCAAAATGCAATCTCGAAGCACA 1167  
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QY 1021 TTCTCTCTGACAGACTTGAGCTGGGGTCTCTGGGTTGGGATGTGACATTTGACAGTGT 1080  
DB 1348 TTCTCTCTGACAGACTTGAGCTGGGGTCTCTGGGTTGGGATGTGACATTTGACAGTGT 1407  
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DB 1408 GCCCATGTACAAAGTGAATCTCATACAGATAAAACAGTGGCAGTGACAGGGACACACTCGCC 1467  
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DB 1468 AAAAGATTACCTTCAGCAGCAGCTTCAGGAGGAGCTCCATCTGCAGCGGGCTTCGATCGGCA 1527  
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QY 1261 GGGGAAGACAAACATATTAAGTGGTCTTTTAACAGAGGTCAAAACAAAGTGGTGCATCATC 1320  
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QY 1321 CACACAGTCTGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGAGCTGTCCAAAATGACA 1380  
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DB 1708 GGAGGTTTACAGACATATGCTTTCAGATCAAGTTTCAGAACAAATGGCCTCATTTGATGCTTTT 1767  
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QY 1621 GATCCAGTGGACAGAAAGAGTGGCTTTGTAGTGGACAAACACCAAAATGGGCTTAC 1680  
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QY 1681 CTCCTAAATCCAGGCAATGCTAAGTTGGCACTTGGAATATACAGTCTGCAAGCAAGCTCA 1740  
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QY 1741 CAAACCTTGACCTGACTGTCACTGCTCCCGTCCCAATGCTACCTGCTCCAAATACA 1800  
DB 2068 CAAACCTTGACCTGACTGTCACTGCTCCCGTCCCAATGCTACCTGCTCCAAATACA 2127  
QY 1801 GTGACTTCCAAAACGAAACAGGACACCAAGCAAAATCCCGAGCCCTCTGTTAGTATGCA 1860  
DB 2128 GTGACTTCCAAAACGAAACAGGACACCAAGCAAAATCCCGAGCCCTCTGTTAGTATGCA 2187  
QY 1861 AATATTTCCGCAAGGAGCTCCCAATTTCTCAGGGCCAGTGTCAAGCCCTGATTTGAATCA 1920  
DB 2188 AATATTTCCGCAAGGAGCTCCCAATTTCTCAGGGCCAGTGTCAAGCCCTGATTTGAATCA 2247  
QY 1921 GTGAATGGAATAACAGTTTACCTTGGAACTATCTGGAATAATGGAGCAGTGTGATGCTACT 1980  
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DB 2308 AAGGATGACGGTGTCTACTCAAGGTTATTCACAACTTATGACACGAATGGTATGATACAGT 2367  
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DB 2368 GTAAAGTCCGGCTCTGGAGGAGTTAACGAGCCAGCGAGAGTGTATCCCGAGCAG 2427  
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DB 2428 AGTGGAGCACTGTACATACCTGGCTGGATTGAGAAATGATGAATAACAATGGAAATCCACCA 2487  
QY 2161 AGACCTGAAATTAATGAAGGATGATTTCAACAACAAGCAAGTGTGTTTTCAGCAGAACATCC 2220

Db 2488 AGACCTGAAATTAATAAGGATGATGTTCAACACAAAGCAAGTGTGTTTCAGCAGAAACATCC 2547  
Qy 2221 TCGGAGGCTCATTTCTGCTCTCTGATGTCCTCAATGCTCCCATACCTGATCTCTTCCCA 2280  
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Qy 2341 TCGACAGCTCTCTGCGGATGATTAAGACATGAAACAGCTCAACAGTATATCAATTCGAATA 2400  
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Qy 2461 GCTCTCATCCCAAGGACCAACTCTGAGGAAGTCTTTTGTGTTTAAACGAGAAACATTT 2520  
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Qy 2941 TTCTGTAGGCGGCGATAAATAAATGCTTAACACTGGTA 2983  
Db 3267 TTCTGTAGGCGGCGATAAATAAATGCTTAACACTGGTA 3309

## RESULT 9

US-10-393-590-11  
; Sequence 11, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNOSTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; PRIOR FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 11  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human

US-10-393-590-11

Query Match 99.4%; Score 2966.2; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 2979; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

Qy 1 GAAATCACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTCTATCTGATT 60  
Db 328 GGAATCACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTCTATCTGATT 387  
Qy 61 CTTTCACTTCTAGAAAGGGCCCTGAGTAATTCATCTATTCAGCTGAACAACTGGCTAT 120  
Db 388 CTTTCACTTCTAGAAAGGGCCCTGAGTAATTCATCTATTCAGCTGAACAACTGGCTAT 447  
Qy 121 GAAGCATTTGCTTGGCAATCGACCCCAATGTGCCAGAGATGAAACACTCTATTCAACAA 180  
Db 448 GAAGCATTTGCTTGGCAATCGACCCCAATGTGCCAGAGATGAAACACTCTATTCAACAA 507  
Qy 181 ATAAAGGACATGGTGACCCAGGCATCTCTGTATCTGTTTGAAGCTTACAGGAAGCGATT 240  
Db 508 ATAAAGGACATGGTGACCCAGGCATCTCTGTATCTGTTTGAAGCTTACAGGAAGCGATT 567  
Qy 241 TATTTCAAAAATGTTGCCATTTTGAATTCCTGAAACATGGAAGACAAAGCTGACTATGTG 300  
Db 568 TATTTCAAAAATGTTGCCATTTTGAATTCCTGAAACATGGAAGACAAAGCTGACTATGTG 627  
Qy 301 AGACCAAACTTGAGACCTTACAAAATGCTGATGTTTCTGTTGCTGAGTCTACTCTCTCA 360  
Db 628 AGACCAAACTTGAGACCTTACAAAATGCTGATGTTTCTGTTGCTGAGTCTACTCTCTCA 687  
Qy 361 GGTATATGTAACCTTACATGAGCAGATGGGCAACTGTGGAGAGAAGGGTGAAGGATC 420  
Db 688 GGTATATGTAACCTTACATGAGCAGATGGGCAACTGTGGAGAGAAGGGTGAAGGATC 747  
Qy 421 CACCTCACTCTCTGATTTTCAATGAGGAAAGTTAGCTGAATATGACCAACAGGTAGG 480  
Db 748 CACCTCACTCTCTGATTTTCAATGAGGAAAGTTAGCTGAATATGACCAACAGGTAGG 807  
Qy 481 GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGATTTTGAAGGATGATGATATGAT 540  
Db 808 GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGATTTTGAAGGATGATGATATGAT 867  
Qy 541 GAGAAATTTCTATTATCAATGGAAGATTAACAGCAGTAAGATGTTTCAGCAGTATTACT 600  
Db 868 GAGAAATTTCTATTATCAATGGAAGATTAACAGCAGTAAGATGTTTCAGCAGTATTACT 927  
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Db 928 GGTACAAATGTATGAAAGAGTGTGAGGAGGAGCTGTATACCAACAAAGATGCAATTC 987  
Qy 661 AATAAGTAAACAGGACTCTATGAAAGAGTGTGAGTGTGTTCTCAATCCCGCAGAGC 720  
Db 988 AATAAGTAAACAGGACTCTATGAAAGAGTGTGAGTGTGTTCTCAATCCCGCAGAGC 1047  
Qy 721 GAGAAGGCTTCTATTAATGTTTGCAACATGTTGATTTCTATAGTTGAATTTCTGTACAG 780  
Db 1048 GAGAAGGCTTCTATTAATGTTTGCAACATGTTGATTTCTATAGTTGAATTTCTGTACAG 1107  
Qy 781 CAAAAACCAACAAAGAGCTTCAACAGCAAAATCAAAAATGCAATCTCCGAGAGCACA 840  
Db 1108 CAAAAACCAACAAAGAGCTTCAACAGCAAAATCAAAAATGCAATCTCCGAGAGCACA 1167  
Qy 841 TGGGAAGTGCCTGATTTCTGAGGACTTTAAGAAACCACTCTATGATGATGATGATGAT 900  
Db 1168 TGGGAAGTGCCTGATTTCTGAGGACTTTAAGAAACCACTCTATGATGATGATGATGAT 1227  
Qy 901 CCAATCCCACTCTCTCATTTGCTGAGATTTGACAAAGAAATTTGTGTTTGTCTTGTAC 960  
Db 1228 CCAATCCCACTCTCTCATTTGCTGAGATTTGACAAAGAAATTTGTGTTTGTCTTGTAC 1287  
Qy 961 AAATCTGGAAGCATGGGAGCTGTTAAACGCTCAATTCGATGATCAAGCAGGCGAGCTT 1020  
Db 1288 AAATCTGGAAGCATGGGAGCTGTTAAACGCTCAATTCGATGATCAAGCAGGCGAGCTT 1347





; NUMBER OF SEQ ID NOS: 100									
; SOFTWARE: PatentIn version 3.1									
; SEQ ID NO 12									
; LENGTH: 3311									
; TYPE: DNA									
; ORGANISM: human									
US-10-393-590-12									
Query Match 99.4%; Score 2966.2; DB 15; Length 3311;									
Best Local Similarity 99.9%; Pred. No. 0;									
Matches 2979; Conservative 0; Mismatches 3; Indels 1; Gaps 1;									
Qy	1	GAATACACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTTTCATCTTGATT	60						
Db	328	GGATACACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTTTCATCTTGATT	387						
Qy	61	CTTCACTCTTAGAAGGGCCCTGAGTAATCACTCAATTCAGCTGAACAAATGGCTAT	120						
Db	388	CTTCACTCTTAGAAGGGCCCTGAGTAATCACTCAATTCAGCTGAACAAATGGCTAT	447						
Qy	121	GAAGGATCTGTTGCAATGACCCCAATGTGCCAGAGATGAACACTCAATCAACAA	180						
Db	448	GAAGGATCTGTTGCAATGACCCCAATGTGCCAGAGATGAACACTCAATCAACAA	507						
Qy	181	ATAAAGGACATGGTGACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGGAAAGGATTT	240						
Db	508	ATAAAGGACATGGTGACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGGAAAGGATTT	567						
Qy	241	TATTTCAAAAATGTTGGCAATTTTGATCTCTGAAACATGGAAGCAAAAGCTGACTATGTG	300						
Db	568	TATTTCAAAAATGTTGGCAATTTTGATCTCTGAAACATGGAAGCAAAAGCTGACTATGTG	627						
Qy	301	AGACCAAACTTGAGACCTTACAAAATGCTGATGTTCTGGTCTGAGTCTACTCTCCA	360						
Db	628	AGACCAAACTTGAGACCTTACAAAATGCTGATGTTCTGGTCTGAGTCTACTCTCCA	687						
Qy	361	GGTAATGATGAACCCCTACACTGAGCAGATGGGCAACTGTGGAGAGAGGGTGAAGGATC	420						
Db	688	GGTAATGATGAACCCCTACACTGAGCAGATGGGCAACTGTGGAGAGAGGGTGAAGGATC	747						
Qy	421	CACCTCACTCTGATTTTACAGGAAAAAGTTAGCTGAAATATGGACCAAGGATAGG	480						
Db	748	CACCTCACTCTGATTTTACAGGAAAAAGTTAGCTGAAATATGGACCAAGGATAGG	807						
Qy	481	GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTTCAAGGATACAAATATGAT	540						
Db	808	GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTTCAAGGATACAAATATGAT	867						
Qy	541	GAGAAATTTCTATCTTATCCAAATGGAAGATACAGCAGTAAGATGTTTCAGCAGGTATTCT	600						
Db	868	GAGAAATTTCTATCTTATCCAAATGGAAGATACAGCAGTAAGATGTTTCAGCAGGTATTCT	927						
Qy	601	GGTACAAATGTATGAAGAGTGTACAGGAGCAGCTGTATACCAAAAAGATGCAATTC	660						
Db	928	GGTACAAATGTATGAAGAGTGTACAGGAGCAGCTGTATACCAAAAAGATGCAATTC	987						
Qy	661	AATAAGTAAACAGGACTCTATGAAAAGATGTAGTTTGTTCTCCAATCCCGCCAGAG	720						
Db	988	AATAAGTAAACAGGACTCTATGAAAAGATGTAGTTTGTTCTCCAATCCCGCCAGAG	1047						
Qy	721	GAGAGGCTTCTATATGTTTGCACAAATGTTGATTTCTATAGTTGAAATTTCTGTACAGAA	780						
Db	1048	GAGAGGCTTCTATATGTTTGCACAAATGTTGATTTCTATAGTTGAAATTTCTGTACAGAA	1107						
Qy	781	CAAAACCAACAAAGAGCTCCAAACAAAGCAAAATCAAAAATGCAATCTCCGAAGCACA	840						
Db	1108	CAAAACCAACAAAGAGCTCCAAACAAAGCAAAATCAAAAATGCAATCTCCGAAGCACA	1167						
Qy	841	TGGGAGTGTATCGGTGATTTCTGAGGACTTTAGAAAACCACTCTATGACACAGGCA	900						
Db	1168	TGGGAGTGTATCGGTGATTTCTGAGGACTTTAGAAAACCACTCTATGACACAGGCA	1227						
Qy	901	CCAAATCCCACTTCTCATTTGCTGCAGATTGGACAAAGAAATTTGTGTTTAGTCTCTGAC	960						
1228	CCAAATCCCACTTCTCATTTGCTGCAGATTGGACAAAGAAATTTGTGTTTAGTCTCTGAC	1287							
961	AAATCTGGAAGCATGGGCACTGGTAAACCGCCTCAATCGACTGAATCAAGCAGCCGAGCTT	1020							
1288	AAATCTGGAAGCATGGGCACTGGTAAACCGCCTCAATCGACTGAATCAAGCAGCCGAGCTT	1347							
1021	TTCTCTGCTGCAGACAGTTTGGGCTCTGGGTTGGGATGGTGATGCTGACATTTTGACAGTGT	1080							
1348	TTCTCTGCTGCAGACAGTTTGGGCTCTGGGTTGGGATGGTGATGCTGACATTTTGACAGTGT	1407							
1081	GCCCATGTACAAAGTGAATCATACAGATAAACAGTGGCAGTGACAGGAGACACATCTGGC	1140							
1408	GCCCATGTACAAAGTGAATCATACAGATAAACAGTGGCAGTGACAGGAGACACATCTGGC	1467							
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1468	AAAGATTACCTGACAGAGCTTCAGAGGAGAGCTCCATCTGACGGGGCTTCGATCGGCA	1527							
1201	TTTACTGTGATTAGGAAGAAATATCAACTGATGATCTGAAATTTGTGCTGACGGAT	1260							
1528	TTTACTGTGATTAGGAAGAAATATCAACTGATGATCTGAAATTTGTGCTGACGGAT	1587							
1261	GGGGAAGCAACACATATAAGTGGTGTCTTAAACGAGGTCAAAACAAAGTGGTGGCATCATC	1320							
1588	GGGGAAGCAACACATATAAGTGGTGTCTTAAACGAGGTCAAAACAAAGTGGTGGCATCATC	1647							
1321	CACACAGTGGCTTTGGGGCCCTCTGACGTCAGAACTAGAGGAGCTGCCAAATGACA	1380							
1648	CACACAGTGGCTTTGGGGCCCTCTGACGTCAGAACTAGAGGAGCTGCCAAATGACA	1707							
1381	GGAGTGTTCAGACATATGCTTCAGATCAAGTTTCAAGAACTAGGGCTCATTCATGCTTTT	1440							
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1441	GGGGCCCTTTTCAATCAGGAAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG	1500							
1768	GGGGCCCTTTTCAATCAGGAAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG	1827							
1501	GGATTAAACCTCCAGAACAGCCAGTGGATGAATGGACAGTGTCTGAGAGCAGCCGTG	1560							
1828	GGATTAAACCTCCAGAACAGCCAGTGGATGAATGGACAGTGTCTGAGAGCAGCCGTG	1887							
1561	GGAAAGGACATTTGTTTCTTATCACTGGAACAGCGAGCTCCCAATCTCTCTGG	1620							
1888	GGAAAGGACATTTGTTTCTTATCACTTGGACAGCGAGCTCCCAATCTCTCTGG	1947							
1621	GATCCAGTGGACAGAAAGGCTGTTTGTAGTGGACAAACCAAAAATGGCTTAC	1680							
1948	GATCCAGTGGACAGAAAGGCTGTTTGTAGTGGACAAACCAAAAATGGCTTAC	2007							
1681	CTCCAAATCCAGGCAATTTGCTAAGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA	1740							
2008	CTCCAAATCCAGGCAATTTGCTAAGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA	2067							
1741	CAAACTTGACCTGACCTGCTGACGTCCTGGTGGTCCAAATGCTACCTGCTCCAAATTACA	1800							
2068	CAAACTTGACCTGACCTGCTGACGTCCTGGTGGTCCAAATGCTACCTGCTCCAAATTACA	2127							
1801	GTGACTTCCAAAACCAAGGACACCAAGCAAAATCCCCAGCCCTCTGGTAGTTTATGCA	1860							
2128	GTGACTTCCAAAACCAAGGACACCAAGCAAAATCCCCAGCCCTCTGGTAGTTTATGCA	2187							
1861	ATATTTCGCAAGGAGCTCCCAATTTCTAGGGCAGTGTACAGCCCTGATGTAATCA	1920							
2188	ATATTTCGCAAGGAGCTCCCAATTTCTAGGGCAGTGTACAGCCCTGATGTAATCA	2247							
1921	GTGAATGGAATAAAGTGTACCTTTGAACTACTTGGATAATGGAGCAGGTGCTGATGCTACT	1980							
2248	GTGAATGGAATAAAGTGTACCTTTGAACTACTTGGATAATGGAGCAGGTGCTGATGCTACT	2307							
1981	AAGGATGACGGTGTCTACTCAAGGATTTTCAAACTTATGACCGAATGGTAGATACAGT	2040							

Db 2308 AAGGATGACGGTGTCTACTCAAGGTATTTCCACAACTTATGACACGAATGGTAGATACAGT 2367  
Qy 2041 GTAAAGATCGGGCTCTGGGAGAGTTAAACGACCCAGAGAGTATACCCCAAGCAG 2100  
Db 2368 GTAAAGATCGGGCTCTGGGAGAGTTAAACGACCCAGAGAGTATACCCCAAGCAG 2427  
Qy 2101 AGTGGAGCACTGTACATACCTGGCTGGATTGAGAAATGAGTAACAATGGAATCCACCA 2160  
Db 2428 AGTGGAGCACTGTACATACCTGGCTGGATTGAGAAATGAGTAACAATGGAATCCACCA 2487  
Qy 2161 AGACCTGAAATTAATAAGGATGATTTCAACACAAAGTGTGTTTCAGCAGAACATCC 2220  
Db 2488 AGACCTGAAATTAATAAGGATGATTTCAACACAAAGTGTGTTTCAGCAGAACATCC 2547  
Qy 2221 TCGGAGGCTCAATTTGGCTCTGATGTCCTCAATGTCCTCCATACCTGATCTCTTCCCA 2280  
Db 2548 TCGGAGGCTCAATTTGGCTCTGATGTCCTCAATGTCCTCCATACCTGATCTCTTCCCA 2607  
Qy 2281 CCTGGCCAAATCACCGACCTGAAGCGGAAATTCACGGGGCGAGTCTCATTAATCTGACT 2340  
Db 2608 CCTGGCCAAATCACCGACCTGAAGCGGAAATTCACGGGGCGAGTCTCATTAATCTGACT 2667  
Qy 2341 TGGACAGCTCTCGGGATGATTAATGACCATGGAACAGCTCACAAATGATATATTCGAATA 2400  
Db 2668 TGGACAGCTCTCGGGATGATTAATGACCATGGAACAGCTCACAAATGATATATTCGAATA 2727  
Qy 2401 AGTACAAGTATTTCTGATCTCAGACAAAGTTCATGATCTCTTCAAGTGAATACTACT 2460  
Db 2728 AGTACAAGTATTTCTGATCTCAGACAAAGTTCATGATCTCTTCAAGTGAATACTACT 2787  
Qy 2461 GCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTTAAACGAGAAACAT 2520  
Db 2788 GCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTTAAACGAGAAACAT 2847  
Qy 2521 ACTTTTGAATGAGGACAGATCTTTTCAATGCTATTCAGGCTGTGATAGCTCGATCTG 2580  
Db 2848 ACTTTTGAATGAGGACAGATCTTTTCAATGCTATTCAGGCTGTGATAGGTCGATCTG 2907  
Qy 2581 AAATCAGAAATATCCAACTGACAGATATCTTTGTTTATTCCTCCACAGACTCCGCCA 2640  
Db 2908 AAATCAGAAATATCCAACTGACAGATATCTTTGTTTATTCCTCCACAGACTCCGCCA 2967  
Qy 2641 GAGACACCTAGTCTGTGATGAACAGTCTGCTCTGTGCTTAATATTCATATCAACAGCACC 2700  
Db 2968 GAGACACCTAGTCTGTGATGAACAGTCTGCTCTGTGCTTAATATTCATATCAACAGCACC 3027  
Qy 2701 ATTCCTGGCATTCACATTTTAAATTTATGTTGGAAGTGAAGAGAACTGAGCTGTCA 2760  
Db 3028 ATTCCTGGCATTCACATTTTAAATTTATGTTGGAAGTGAAGAGAACTGAGCTGTCA 3087  
Qy 2761 ATAGCTAGGCTGAATTTTGTGATGAATAAATAAATCAATTCATCTTTTGTGA 2820  
Db 3088 ATAGCTAGGCTGAATTTTGTGATGAATAAATAAATCAATTCATCTTTTGTGA 3146  
Qy 2821 TTATAAATTTTCTAAATGATATTTAGACTTCTGTTAGGGCGGATATCTAAATGAT 2880  
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Qy 2881 ATAGTACATTTATCTAAATGATATTTCTGTTAGGGCGGATATCTAAATGATTTAGAC 2940  
Db 3207 ATAGTACATTTATCTAAATGATATTTCTGTTAGGGCGGATATCTAAATGATTTAGAC 3266  
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Db 3267 TTCTGTAGGGCGGATATAAATAAATGATGTAACCACTGGGTA 3309

RESULT 11  
US-10-393-590-46  
; Sequence 46, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN

; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: Patentin version 3.1  
; SEQ ID NO 46  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
; US-10-393-590-46

Query Match 99.4%; Score 2966.2; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 2979; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

Qy 1 GAATACACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCGTGTTTCATCTTGATT 60  
Db 328 GGAATACACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCGTGTTTCATCTTGATT 387  
Qy 61 CTTCACTCTTCTAGAGGGGCCCTGAGTAATTCACCTCATTCAGCTGAACAACAATGGCTAT 120  
Db 388 CTTCACTCTTCTAGAGGGGCCCTGAGTAATTCACCTCATTCAGCTGAACAACAATGGCTAT 447  
Qy 121 GAAGGCATTTGCTGTCATTCGCAATCGACCCCAATGTCGCAAGAGATCAAACTCATTTCAACAA 180  
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Qy 181 ATAAAGGACATGGTGACCCAGGCATCTCTGTAATCTGTTTGAAGCTTACAGGAAGCCGATT 240  
Db 508 ATAAAGGACATGGTGACCCAGGCATCTCTGTAATCTGTTTGAAGCTTACAGGAAGCCGATT 567  
Qy 241 TATTTTCAAAATGTTGCCATTTTGTATTCCTGAAACATGGAAGCAAGGCTGACTATGTG 300  
Db 568 TATTTTCAAAATGTTGCCATTTTGTATTCCTGAAACATGGAAGCAAGGCTGACTATGTG 627  
Qy 301 AGACCAAACTTTGAGACCTTACAAAATGCTGATGTTTCTGTTGCTGAGTCTACTCTCTCCA 360  
Db 628 AGACCAAACTTTGAGACCTTACAAAATGCTGATGTTTCTGTTGCTGAGTCTACTCTCTCCA 687  
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Db 688 GGTAAATGTAACCTTACACTGAGCAGATGGGCAACTGTGGAGAGAGGGTGAAGGATC 747  
Qy 421 CACCTCAGCTCTGATTTTCAATTCAGGAGAAAGTGTAGCTGAATATGGAACCAAGGTAGG 480  
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Qy 481 GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT 540  
Db 808 GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT 867  
Qy 541 GAGAAATTTCTACTTATCCAATGGAATACTAAGCAGATGAAGTGTTCAGCAGGTATTAAT 600  
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Qy 601 GGTACAAATGTATGAAGAGTGTGAGGAGGAGCTGTACCAAAAAGATGCAATTC 660  
Db 928 GGTACAAATGTATGAAGAGTGTGAGGAGGAGCTGTACCAAAAAGATGCAATTC 987  
Qy 661 AATAAAGTAAACAGGACTCTATGAAAAAGGATGTGAGTTTGTCTCAATCCCGCCAGAG 720  
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QY 1561 GGAAGGACACTTTGTTCTTATCACTGGACAAAGCAGCTCCCAATCCTTCTCTGG 1620  
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DB 1948 GATCCAGTGGACAGAAAGAGTGGCTTTGTAGTGGACAAACCAACCAAAATGGCCTAC 2007  
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DB 2008 CTCCAAAATCCAGGCAATTCAGGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 2067  
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DB 2128 GTGACTTCCAAACCAAGGACACCAAGCAAAATTTCCCGAGCCCTCTGGTAGTTTATGCA 2187  
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DB 2188 AATATTTGGCCAAAGGACCTCCCAATTTCTCAGGGCCAGTGTCAAGCCCTGATTGAATCA 2247

QY 1921 GTGAATGGAAGAAACAGATTACCTTGGAACTACTGGATAAATGGAGCAGGTGCTGATCTACT 1980  
DB 2248 GTGAATGGAAGAAACAGATTACCTTGGAACTACTGGATAAATGGAGCAGGTGCTGATCTACT 2307  
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DB 2428 AGTGAGCAGCTGTATACATACCTGGCTGGATTGAGAAATGATGAATCAATGGAAATCCACCA 2487  
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QY 2401 AGTACAGTATCTTTGATCTCAGAGACAGTTCAATGAATCTCTTCAAGTGAATCTACT 2460  
DB 2728 AGTACAGTATCTTTGATCTCAGAGACAGTTCAATGAATCTCTTCAAGTGAATCTACT 2787  
QY 2461 GCTCTCATCCAAAGGAAGCAACTCTCAGGAAGTCTTTTGTGTTTAAACCAAGAAACATT 2520  
DB 2788 GCTCTCATCCAAAGGAAGCAACTCTCAGGAAGTCTTTTGTGTTTAAACCAAGAAACATT 2847  
QY 2521 ACTTTTGAATAATGGCACAGATCTTTTTCATTTGATTTAGGCTGTTGTAAGTGCATCTG 2580  
DB 2848 ACTTTTGAATAATGGCACAGATCTTTTTCATTTGATTTAGGCTGTTGTAAGTGCATCTG 2907  
QY 2581 AAATCAGAAATATCAACATTTGACAGGATCTTTTGTGTTTATTCCTCCACAGACTCCGCCA 2640  
DB 2908 AAATCAGAAATATCAACATTTGACAGGATCTTTTGTGTTTATTCCTCCACAGACTCCGCCA 2967  
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DB 2968 GAGACACCTAGTCTCTGATGAAACGCTCTGCTCTCTTCTCTTAATTTATCAACAGCACC 3027  
QY 2701 ATTCTGCGATTCACATTTTAAATAATGATGGAAGTGGATAGGAGAACTGCGAGCTGTCA 2760  
DB 3028 ATTCTGCGATTCACATTTTAAATAATGATGGAAGTGGATAGGAGAACTGCGAGCTGTCA 3087  
QY 2761 ATAGCTTAGGGCTGAATTTTGTGATGAATAAATAAATCAATTCATCTCTTTTGTGA 2820  
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DB 3267 TTCTGTAGGGGGCGATTAATAATGATTTTAAACCACTGGGTA 3309

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RESULT 12
US-10-393-590-47
; Sequence 47, Application US/10393590
; Publication No. US20030190656A1
; GENERAL INFORMATION:
; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO
; FILE REFERENCE: CDS 268 US NP
; CURRENT APPLICATION NUMBER: US/10/393,590
; CURRENT FILING DATE: 2003-03-21
; PRIOR APPLICATION NUMBER: 60/368,789
; PRIOR FILING DATE: 2002-03-29
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 47
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: human
US-10-393-590-47

Query Match          99.4%; Score 2966.2; DB 15; Length 3311;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2979; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

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QY 241 TATTTCAAAATGTTGCCATTTTGATCTCTGAAACATGGAACAAAGGCTGACTATG 300
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DB 628 AGACCAAAACTTGAGACCTTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCA 587
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DB 688 GGTATGATGAACCCCTACACTGAGCAGATGGGCAACTGTGGAGAGAGGTTGAAAGGATC 747
QY 421 CACCTCACTTCCTGATTTTCAATTGAGGAAAAGTTAGCTGAATATGGACCAACAGGTAG 480
DB 748 CACCTCACTTCCTGATTTTCAATTGAGGAAAAGTTAGCTGAATATGGACCAACAGGTAG 807
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DB 808 GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT 867
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DB 868 GAGAAATTTACTTATCCAAATGGAAGATACAGCAGTAAAGTGTTCAGCAGGTATTACT 927
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1228 CCAATCCCACTTCTCATTTGCTGAGATTGACAAAGAAATTTGTGTTAGTCTTGTGAC 1287
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1288 AAATCTGGAAGCATGGCGACTGGTAACCGCCTCAATCGACTGAATCAAGCAGCGCAGCTT 1347
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1348 TTCCTGCTGCAGACAGTTGAGCTGGGGTCTCGGGTTGGATGGTGAATTTGACATGCT 1407
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1408 GCCCATGTACAAAGTGAATCTATACAGATAAAGTGGCAGTGACAGGACACACACTCGCC 1467
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1468 AAAAGATTACCTGCGACAGCTTCAGGAGGAGCTCCATCTGACGGGGCTTCGATCGGCA 1527
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1528 TTTACTGTGATTAGGAAGAAATATCCAACTGATGATCTGAAATTTGCTGCTGACGGAT 1587
1261 GGGGAAGACAAACATATTAAGTGGGCTTTAAGAGGTCACAAAGTGGTGGCCATCATC 1320
1588 GGGGAAGACAAACATATTAAGTGGGCTTTAAGAGGTCACAAAGTGGTGGCCATCATC 1647
1321 CACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGAGGCTGTCACAAATGACA 1380
1648 CACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGAGGCTGTCACAAATGACA 1707
1381 GGAGGTTTACAGACATATGCTTTCAATCAAGTTTCAAGAACTAGAGGCTGTCACAAATGACA 1440
1708 GGAGGTTTACAGACATATGCTTTCAATCAAGTTTCAAGAACTAGAGGCTGTCACAAATGACA 1767
1441 GGGGCCCTTTTCAATCAGGAAATGAGCTGCTCTCAGCGCTCCATCCAGCTTGAAGTAAG 1500
1768 GGGGCCCTTTTCAATCAGGAAATGAGCTGCTCTCAGCGCTCCATCCAGCTTGAAGTAAG 1827
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1828 GGATTAACCCCTCCAGAACAGCCAGTGGATGAATGGCAGAGTATCGTGACAGCACCGTG 1887
1561 GGAAGGACACATTTGTTTCTTATCACTGGACAAACAGCGCTCCCAAAATCTCTCTGG 1620
1888 GGAAGGACACATTTGTTTCTTATCACTGGACAAACAGCGCTCCCAAAATCTCTCTGG 1947
1621 GATCCAGTGGACAGAAAGGTTGTTGATGGACAAACCAACCAAAATGGGCTTAC 1680
1948 GATCCAGTGGACAGAAAGGTTGTTGATGGACAAACCAACCAAAATGGGCTTAC 2007
1681 CTCCTAAATCCAGGCAATTCGTAAGTTGGCATTTGGAAATACAGTCTGCAAGCAAGCTCA 1740
2008 CTCCTAAATCCAGGCAATTCGTAAGTTGGCATTTGGAAATACAGTCTGCAAGCAAGCTCA 2067
1741 CAAACCTTGACCTGACTGTCACTGCCCTGCTGCTCAATGCTACCTGCTCCAAATTACA 1800
2068 CAAACCTTGACCTGACTGTCACTGCCCTGCTGCTCAATGCTACCTGCTCCAAATTACA 2127
1801 GTGACTTCCAAACGAAACAGGACACAGCAAAATTCCTCCAGGCTCTGTGATGTTTATGCA 1860
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Db 2128 GTGACTTCCAAAACGAAACGAGCACACAGCAAAATTCCTCCAGCCCTCTGCTAGTTATGCA 2187  
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Db 2188 AATAATTCGCAAGGAGCTCCCAATTCCTCAGGCCAGTGTACAGCCCTGATTCGAATCA 2247  
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Qy 2101 AGTGAGCACTGTACATACCTGGCTGGATTGAGAAATGAAATCAATGGAAATCCACCA 2160  
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Db 2728 AGTACAGATTTCTTGATCTCAGACAGCAAGTTCAATGAATCTCTCAAGTGAATACTACT 2787  
Qy 2461 GCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTTAAACAGAAACATTT 2520  
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Qy 2521 ACTTTTGAATAATGGCAGATCTTTTCATTCGCTATTTCAGGCTGTTGATGAAGTCGATCTG 2580  
Db 2848 ACTTTTGAATAATGGCAGATCTTTTCATTCGCTATTTCAGGCTGTTGATGAAGTCGATCTG 2907  
Qy 2581 AAATCGAAATATCCAAATTCGACAGATCTTTTGTGTTTATTCCTCCACAGACTCGGCCA 2640  
Db 2908 AAATCGAAATATCCAAATTCGACAGATCTTTTGTGTTTATTCCTCCACAGACTCGGCCA 2967  
Qy 2641 GAGACACCTAGTCCTGATGAACAGTCTGCTCTTGTCTTAATTCATATCAACAGCACC 2700  
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Qy 2701 ATTCTCGCATTCACATTTTAAATAATATGTGGAAGTGGATAGGAACTGACGCTGTCA 2760  
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Qy 2941 TTCTGTAGGGCGGATATAAATAAATAAATGCTAAACAACTGGGTA 2983  
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## RESULT 13

US-10-393-567-11  
; Sequence 11, Application US/10393567  
; Publication No. US20030194733A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: CANCER DIAGNOSTIC PANEL  
; FILE REFERENCE: CDS 269 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,567  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,667  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 11  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-567-11

Query Match 99.4%; Score 2966.2; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 2979; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

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1888 GGAAGGACACTTTGTTTCTTATCACTTGCAACAGCAGCTCCCAAAATCTCTCTGG 1947  
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1681 CTCCTCAATCCAGGCTGCTAGGTTGGACCTTGGAAATACAGTCTGCAAGCAAGCTCA 1740  
2008 CTCCTCAATCCAGGCTGCTAGGTTGGACCTTGGAAATACAGTCTGCAAGCAAGCTCA 2067

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RESULT 14				
US-10-393-567-12				
; Sequence 12, Application US/10393567				
; Publication No. US20030194733A1				
; GENERAL INFORMATION:				
; APPLICANT: WANG, YIXIN				
; TITLE OF INVENTION: CANCER DIAGNOSTIC PANEL				
; FILE REFERENCE: CDS 269 US NP				
; CURRENT APPLICATION NUMBER: US/10/393,567				
; PRIOR FILING DATE: 2003-03-21				
; PRIOR APPLICATION NUMBER: 60/368,667				
; PRIOR FILING DATE: 2002-03-29				
; NUMBER OF SEQ ID NOS: 100				
; SOFTWARE: PatentIn version 3.1				
; SEQ ID NO 12				
; LENGTH: 3311				
; TYPE: DNA				
; ORGANISM: human				
US-10-393-567-12				
Query Match				
Best Local Similarity 99.4%; Score 2966.2; DB 15; Length 3311;				
Matches 2979; Conservative 0; Mismatches 3; Indels 1; Gaps 1;				
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Db	388	CTTCACTCTTAGAAGGGCCCTGAGTAATCACTCATTCAGCTGAACCAATGGCTAT	447	
Qy	121	GAAGGCAATGCTGTCATCGACCCCAATGTCGAGAGATGAACACTCATTCACAA	180	
Db	448	GAAGGCAATGCTGTCATCGACCCCAATGTCGAGAGATGAACACTCATTCACAA	507	
Qy	181	ATAAGGACATGCTGACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT	240	
Db	508	ATAAGGACATGCTGACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT	567	
Qy	241	TATTTCAAAAATGTTGCCATTTTGATTCCTGAAACATGGAAGCAAAAGCTGACTATGTG	300	
Db	568	TATTTCAAAAATGTTGCCATTTTGATTCCTGAAACATGGAAGCAAAAGCTGACTATGTG	627	
Qy	301	AGACCAAACTTGAGACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCA	360	
Db	628	AGACCAAACTTGAGACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCA	687	
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Db	688	GGTAATGATGAACCCCTACACTGAGCAGATGGGCACTGTGGAGAGAGGTTGAAGGATC	747	
Qy	421	CACCTCACTCTGATTTTCAATTCAGGAAAAAGTTAGCTGAATATGGACCAAGAGTAGG	480	
Db	748	CACCTCACTCTGATTTTCAATTCAGGAAAAAGTTAGCTGAATATGGACCAAGAGTAGG	807	
Qy	481	GCATTTGTCCTCAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT	540	
Db	808	GCATTTGTCCTCAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT	867	
Qy	541	GAGAAATTTCTACTTATCCAAATGGAAGATACAAAGCAGTAAGATGTTTCAGCAGTATTACT	600	

Db	868	GAGAAATTTCTACTTATCCAATGGAAGAATACAAGCAGTAAGATGTTTCAGCAGGTATTACT	927	
Qy	601	GGTACABATGTAGTAAAGAGTGTCCAGGGAGCGACTGTTACCAAAAAGATGCAATTC	660	
Db	928	GGTACABATGTAGTAAAGAGTGTCCAGGGAGCGACTGTTACCAAAAAGATGCAATTC	987	
Qy	661	AATAAAGTAAACAGGACTCTATGAAAAAGGATGTGAGTTTGTCTCCAAATCCCGCCAGAG	720	
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Qy	721	GAGAAAGCTTCTATAATGTTTGCAACAATGTTGATCTTATAGTTGAAATTCGTGTACAGAA	780	
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Db	1108	CAAAACCAACAAGAGCTTCCAAACAAGCAAAATCAAAAATGCAATTCGGAAGCAC	1167	
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Db	1168	TGGGAAGTGATCCGTTGATTTCTGAGGACTTTTAAGAAAAACCACTCTTATGACAAACAGCCA	1227	
Qy	901	CCAAATCCCACTCTCTCATTTGCTGCAGATTTGACAAAAGAAATTTGTGTTTGTAGTCTTGAC	960	
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Qy	961	AAATCTGGAAGCATGGGCACTGGTAAACCGCTCAATGCAATCAAGCAGCCAGCTT	1020	
Db	1288	AAATCTGGAAGCATGGGCACTGGTAAACCGCTCAATGCAATCAAGCAGCCAGCTT	1347	
Qy	1021	TTCTCTGCTGCAGACAGTTTGAGCTGGGCTCTGGGTTGGAGTGGTGCATTTGACAGTGTCT	1080	
Db	1348	TTCTCTGCTGCAGACAGTTTGAGCTGGGCTCTGGGTTGGAGTGGTGCATTTGACAGTGTCT	1407	
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Qy	1141	AAAGATTTACCTGACAGAGCTTTCAGAGGAGAGCTCCATCTGCAGCGGGCTTCGATCGGCA	1200	
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Db 2008 CTCAAAATCCAGGCAATGCTAAGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 2067  
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Qy 1801 GTGACTTCCAAAACGAAACAGGACACACAGCAAAATTCCTCCAGCCCTCTGGTAGTTATGCA 1860  
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Qy 1861 AATATTGGCAAGAGCCCTCCCAATTTCTCAGGGCCAGTGTCAAGCCCTGATTTGAATCA 1920  
Db 2188 AATATTGGCAAGAGCCCTCCCAATTTCTCAGGGCCAGTGTCAAGCCCTGATTTGAATCA 2247  
Qy 1921 GTGAATGGAAAAACAGTTACCTTGGAACTACTGGAATAATGGACAGGTGCTGATGCTACT 1980  
Db 2248 GTGAATGGAAAAACAGTTACCTTGGAACTACTGGAATAATGGACAGGTGCTGATGCTACT 2307  
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Qy 2041 GTAAAAGTGGGGCTCTGGAGAGGTTAAACGACCCAGAGAGTGTATACCCAGCAG 2100  
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Qy 2221 TCGGAGGCTCAATTTGTGGCTTCTGATGTCCCAATGCTCCCATACCTGATCTCTTCCCA 2280  
Db 2548 TCGGAGGCTCAATTTGTGGCTTCTGATGTCCCAATGCTCCCATACCTGATCTCTTCCCA 2607  
Qy 2281 CTTGGCCAAATCAACCACTGAAGGCGGAAATTCACGGGGGAGTCTCATTAATCTGACT 2340  
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Qy 2461 GCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTTAAACAGAAAAACATT 2520  
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Db 3267 TTCTCTAGGGGCGATATAAATAAATAAATGCTAAACAACTGGGTA 3309

## RESULT 15

US-10-393-567-46  
; Sequence 46, Application US/10393567  
; Publication No. US20030194733A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: CANCER DIAGNOSTIC PANEL  
; FILE REFERENCE: CDS 269 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,567  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,667  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 46  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-567-46

Query Match 99.4%; Score 2966.2; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 2979; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

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Db 388 CTTCACTCTTACAGGGGCGCTGAGTAACTTCACTCATTCAGCTGAACAAATGGCTAT 447  
Qy 121 GAAGGCATTTGCTGCAATCGACCCCAATGCGCCAGAAAGATGAAACACTCATTTCAACAA 180  
Db 448 GAAGGCATTTGCTGCAATCGACCCCAATGCGCCAGAAAGATGAAACACTCATTTCAACAA 507  
Qy 181 ATAAAGGACATGGTGAACCCAGGCATCTGTATCTGTTTGAAGCTACAGAAAGCGATT 240  
Db 508 ATAAAGGACATGGTGAACCCAGGCATCTGTATCTGTTTGAAGCTACAGAAAGCGATT 567  
Qy 241 TATTTCAAAATGTTGCCAATTTTGATCTCTGAAACATGGAAGAAAGGCTGACTATGTC 300  
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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

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Listing first 45 summaries

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6: /cgn2\_6/prodata/2/ina/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2971.8	99.6	3007	4	US-09-193-562D-27
2	2743	92.0	2745	4	US-09-623-624-5
3	1764	59.1	2931	4	US-09-623-624-1
4	1512	50.7	1512	4	US-09-016-434-850
5	1308.6	43.9	3043	4	US-09-049-698-16
6	1308.6	43.9	3181	4	US-09-049-698-18
7	900.2	30.2	3317	4	US-09-193-562D-1
8	840.6	28.2	3022	4	US-09-193-562D-33
9	832.6	27.9	3418	4	US-09-193-562D-29
10	790.8	26.5	878	1	US-08-469-667-8
11	790.8	26.5	878	4	US-09-224-110-8
12	790.8	26.5	878	5	PCT-US95-07289-8
13	554.6	18.6	2784	4	US-09-643-597-168
14	554.6	18.6	2784	4	US-09-480-884A-168
15	554.6	18.6	2784	4	US-09-542-615A-168
16	554.6	18.6	2784	4	US-09-606-421B-168
17	552.2	18.5	2773	4	US-09-643-597-358
18	552.2	18.5	2970	4	US-09-193-562D-31
19	552.2	18.5	3951	4	US-09-643-597-160
20	552.2	18.5	3951	4	US-09-480-884A-160
21	552.2	18.5	3951	4	US-09-542-615A-160
22	552.2	18.5	3951	4	US-09-606-421B-160
23	552.2	18.5	3951	4	US-09-221-107-160
24	552.2	18.5	8031	4	US-09-643-597-254
25	552.2	18.5	8031	4	US-09-480-884A-254
26	552.2	18.5	8031	4	US-09-542-615A-254
27	552.2	18.5	8031	4	US-09-606-421B-254

28	550.6	18.5	3190	4	US-09-623-624-3	Sequence 3, Appli
29	531.4	17.8	3156	4	US-09-919-172-86	Sequence 86, Appl
30	441.4	14.8	1081	4	US-09-016-434-928	Sequence 928, App
31	441.4	14.8	1399	4	US-09-049-698-17	Sequence 17, Appl
32	366	12.3	3362	4	US-09-643-597-167	Sequence 167, App
33	366	12.3	3362	4	US-09-480-884A-167	Sequence 167, App
34	366	12.3	3362	4	US-09-542-615A-167	Sequence 167, App
35	366	12.3	3362	4	US-09-606-421B-167	Sequence 167, App
36	323.8	10.9	401	3	US-09-221-298-34	Sequence 34, Appl
37	323.8	10.9	401	4	US-09-401-064-34	Sequence 34, Appl
38	309.2	10.4	619	4	US-09-016-434-931	Sequence 931, Appl
39	228.2	7.7	576	3	US-09-385-982-23	Sequence 23, Appl
40	223	7.5	232	4	US-09-016-434-290	Sequence 290, App
41	221.4	7.4	595	3	US-09-385-982-25	Sequence 25, Appl
42	200.8	6.7	618	3	US-09-385-982-24	Sequence 24, Appl
43	183.4	6.1	611	3	US-09-385-982-27	Sequence 27, Appl
44	168.6	5.7	742	3	US-09-385-982-33	Sequence 33, Appl
45	148.8	5.0	313	4	US-09-049-698-10	Sequence 10, Appl

ALIGNMENTS

RESULT 1

US-09-193-562D-27

; Sequence 27, Application US/09193562D

; Patent No. 6309857

; GENERAL INFORMATION:

; APPLICANT: Pauli, Benedicht U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

; FILE REFERENCE: 18617.0052

; CURRENT APPLICATION NUMBER: US/09/193,562D

; PRIOR FILING DATE: 1998-11-17

; PRIOR APPLICATION NUMBER: US/60/065,922

; PRIOR FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 27

; LENGTH: 3007

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-193-562D-27

Query Match 99.6%; Score 2971.8; DB 4; Length 3007;  
Best Local Similarity 99.8%; Pred. No. 0;  
Matches 2976; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY	1	GAAATCAGGAGATGTACAGCAATGGGGCCATTAAAGATTCTGTTCATCTTGATT	60
DB	23	GGAATCAGGAGATGTACAGCAATGGGGCCATTAAAGATTCTGTTCATCTTGATT	82
QY	61	CTTCACTTCTAGAGGGGCGCTGAGTAATTCATCTCAGCTGAACAACATGGCTAT	120
DB	83	CTTCACTTCTAGAGGGGCGCTGAGTAATTCATCTCAGCTGAACAACATGGCTAT	142
QY	121	GAAGGCAATTCCTTGCATTCGACCCCAATGTCAGCAAGATGAACACTTCAACAA	180
DB	143	GAAGGCAATTCCTTGCATTCGACCCCAATGTCAGCAAGATGAACACTTCAACAA	202
QY	181	ATAAGGACATGGTGACCCAGGCACTCTGTATCTGTTTGAAGCTACAGGAAGCGATT	240
DB	203	ATAAGGACATGGTGACCCAGGCACTCTGTATCTGTTTGAAGCTACAGGAAGCGATT	262
QY	241	TATTTCAAAATGTTGCCATTTTGCATTTTGCATTTTGCATTTTGCATTTTGCAT	300
DB	263	TATTTCAAAATGTTGCCATTTTGCATTTTGCATTTTGCATTTTGCATTTTGCAT	322
QY	301	AGACAAAATCTGAGACCTTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCA	360
DB	323	AGACAAAATCTGAGACCTTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCA	382
QY	361	GGTAATGATGAACCTTACACTGAGCAGATGGGCAACTGTGGAGAGAGGTTGAAGATC	420

Db 383 GGTAATGATGAACCTTACACTGAGCAGATGGCAACTGTGGAGAGAAGGGTGAAGGATC 442  
Qy 421 CACCTCACCTCGATTTCATTGACGAGAAAGTTAGCTGAATATGCGACCAAGGTAGG 480  
Db 443 CACCTCACCTCGATTTCATTGACGAGAAAGTTAGCTGAATATGCGACCAAGGTAGG 502  
Qy 481 GCATTGTCCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT 540  
Db 503 GCATTGTCCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT 562  
Qy 541 GAGAAATCTACTTATCCAAATGGAAGATAAAGCAGTAAGATGTTTACAGAGTATTA 600  
Db 563 GAGAAATCTACTTATCCAAATGGAAGATAAAGCAGTAAGATGTTTACAGAGTATTA 622  
Qy 601 GGTACAAATGTAGTAAGAGTGTGAGGAGGAGCTGTATACCAAAAGATGCAATTC 660  
Db 623 GGTACAAATGTAGTAAGAGTGTGAGGAGGAGCTGTATACCAAAAGATGCAATTC 682  
Qy 661 AATAAAGTAACAGGACTCTATGAAAAGGATGTGAGTTTGTCTCCAATCCCGCCAGAG 720  
Db 683 AATAAAGTACAGGACTCTATGAAAAGGATGTGAGTTTGTCTCCAATCCCGCCAGAG 742  
Qy 721 GAGAGGCTTCTATAATGTTTGCACAAATGTGATTTCTATAGTTGAATTTCTGTACAGAA 780  
Db 743 GAGAGGCTTCTATAATGTTTGCACAAATGTGATTTCTATAGTTGAATTTCTGTACAGAA 802  
Qy 781 CAAAACCAACAAGAGCTCAACAAGCAAAATCAAAAATGCNAATCTCCGAGCACA 840  
Db 803 CAAAACCAACAAGAGCTCAACAAGCAAAATCAAAAATGCNAATCTCCGAGCACA 862  
Qy 841 TGGGAGTGCATCCGTGATTCTGAGGACTTTTAAAGAAACCACTCTATGACAAACAGCCA 900  
Db 863 TGGGAGTGCATCCGTGATTCTGAGGACTTTTAAAGAAACCACTCTATGACAAACAGCCA 922  
Qy 901 CCAATCCCACTTCTCATTTGTCAGATTGGAACAAAGAAATGTGTGTTTGTCTTGTGAC 960  
Db 923 CCAATCCCACTTCTCATTTGTCAGATTGGAACAAAGAAATGTGTGTTTGTCTTGTGAC 982  
Qy 961 AAATCTGGAAGACTGGGAGCTGGTAAACCGCTCAATCGACTGAATCAAGCAGCGCAGTT 1020  
Db 983 AAATCTGGAAGACTGGGAGCTGGTAAACCGCTCAATCGACTGAATCAAGCAGCGCAGTT 1042  
Qy 1021 TTCTCTGCTGCAGACAGTTGAGCTGGGCTCTGGTTGGGATGTTGACATTTGACAGTGTCT 1080  
Db 1043 TTCTCTGCTGCAGACAGTTGAGCTGGGCTCTGGTTGGGATGTTGACATTTGACAGTGTCT 1102  
Qy 1081 GCCCATGTACAAAGTGAATCATACAGATAAAGCAGTGGCAGTGACAGGAGACACTCGCC 1140  
Db 1103 GCCCATGTACAAAGTGAATCATACAGATAAAGCAGTGGCAGTGACAGGAGACACTCGCC 1162  
Qy 1141 AAAAGATTACCTGCAGCAGCTTCAGGAGGAGCTCCATCTGAGCGGGCTTCGATCGGCA 1200  
Db 1163 AAAAGATTACCTGCAGCAGCTTCAGGAGGAGCTCCATCTGAGCGGGCTTCGATCGGCA 1222  
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Db 1223 TTCTCTGATTAGGAAGAAATATCAACTGATGATCTGAAATTTGCTGCTGACGGAT 1282  
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Db 1283 GGGGAAGCAACACTATAGTGGGCTTTAAAGAGGTCAAAAGTGGTGGCTCCATCATC 1342  
Qy 1321 CACAGTCTGCTTTGGGCGCTCTGAGCTCAAGAACTAGAGAGGTGTCGAAATGACA 1380  
Db 1343 CACAGTCTGCTTTGGGCGCTCTGAGCTCAAGAACTAGAGAGGTGTCGAAATGACA 1402  
Qy 1381 GGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAAGAACTAGAGAGGTGTCGAAATGACA 1440  
Db 1403 GGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAAGAACTAGAGAGGTGTCGAAATGACA 1462  
Qy 1441 GGGGCGCTTTTCATCAGGAATGAGGCTGTCTCTCAGCGCTCCATCAGCTTGAGAGTAA 1500  
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Qy 1501 GGATTAACTCCAGAACAGCCAGTGGATGAATGGCAGAGTGATGATCGTGACAGCACCCTG 1560  
Db 1523 GGATTAACTCCAGAACAGCCAGTGGATGAATGGCAGAGTGATGATCGTGACAGCACCCTG 1582  
Qy 1561 GGAAGAGCACATTTGTTTATACCTTGGACAAAGCAGCCTCCCAAAATCTTCTCTGG 1620  
Db 1583 GGAAGAGCACATTTGTTTATACCTTGGACAAAGCAGCCTCCCAAAATCTTCTCTGG 1642  
Qy 1621 GATCCAGTGGACAGAACAGGAGTGGCTTTGATGGGACAAAACACCAAAATGSCCTAC 1680  
Db 1643 GATCCAGTGGACAGAACAGGAGTGGCTTTGATGGGACAAAACACCAAAATGSCCTAC 1702  
Qy 1681 CTCCAAATCCCAAGGATTTGCTAAGGTTGCGACTTGGAAATACAGTCTGCAACCAAGTCA 1740  
Db 1703 CTCCAAATCCCAAGGATTTGCTAAGGTTGCGACTTGGAAATACAGTCTGCAACCAAGTCA 1762  
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Qy 1801 GTGACTTCCAAAACGAAACAGGACACAGGAAATTTCCCGAGCCCTCTGGTAGTTATGCA 1860  
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Qy 1861 AATATTCCCAAGGAGCTCCCAATTTCTCAGGGCCAGTGTCAAGCCCTGATTTGAATCA 1920  
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Qy 1921 GTGAATGGAATAACAGTTTACCTTGGAACTACTTGGATAATGAGAGAGTGTCTGATCTACT 1980  
Db 1943 GTGAATGGAATAACAGTTTACCTTGGAACTACTTGGATAATGAGAGAGTGTCTGATCTACT 2002  
Qy 1981 AAGGATGAGGTGTCTACTCAAGGATTTTCAACCTTATGACACGAAATGTTAGATACAGT 2040  
Db 2003 AAGGATGAGGTGTCTACTCAAGGATTTTCAACCTTATGACACGAAATGTTAGATACAGT 2062  
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Db 2063 GTAAAGTCCGGCTCTCGGAGGAGTTAACGAGCCAGACGAGAGTGTATCCCGAGCAG 2122  
Qy 2101 AGTGAGCAGCTGTATACATCTGGCTGGATTTGAGAAATGATGAATACAAATGGAATCCACCA 2160  
Db 2123 AGTGAGCAGCTGTATACATCTGGCTGGATTTGAGAAATGATGAATACAAATGGAATCCACCA 2182  
Qy 2161 AGACCTGAAATTAATAAGGATGATTTCAACAGCAAGTGTGTTTCAAGCAGAACATCC 2220  
Db 2183 AGACCTGAAATTAATAAGGATGATTTCAACAGCAAGTGTGTTTCAAGCAGAACATCC 2242  
Qy 2221 TCGGAGGCTCATTTTGTGGCTTCTGATGTCCCAATGTCCCATACCTGATCTCTTCCCA 2280  
Db 2243 TCGGAGGCTCATTTTGTGGCTTCTGATGTCCCAATGTCCCATACCTGATCTCTTCCCA 2302  
Qy 2281 CTGCGCCAAATCACCGACTGAAGCGGAAATTCAGGGGGCAGTCTCATTAATCTGACT 2340  
Db 2303 CTGCGCCAAATCACCGACTGAAGCGGAAATTCAGGGGGCAGTCTCATTAATCTGACT 2362  
Qy 2341 TGGACAGCTCTCGGGATGATTTATGACCATGGAACAGCTCAAGTATATCATTCGAATA 2400  
Db 2363 TGGACAGCTCTCGGGATGATTTATGACCATGGAACAGCTCAAGTATATCATTCGAATA 2422  
Qy 2401 AGTACAAGTATTTTGTGATCTCAGACAGAAATTCATGAATCTCTTCAAGTGAATCTACT 2460  
Db 2423 AGTACAAGTATTTTGTGATCTCAGACAGAAATTCATGAATCTCTTCAAGTGAATCTACT 2482  
Qy 2461 GCTCTCATCCCAAGGAGCAGCTCTGAGGAGTCTTTTTTGTGTTTAAACAGGAAACATT 2520  
Db 2483 GCTCTCATCCCAAGGAGCAGCTCTGAGGAGTCTTTTTTGTGTTTAAACAGGAAACATT 2542  
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Db 2543 ACTTTTGAATAATGGAACAGATCTTTTTCATGCTATTCAGGCTGTTGATAGGTCGATCTG 2602



Db 961 AACCCGCTCAATCGACTGAATCAAGCAGGCCAGCTTTCTCTGCTGACAGACAGTTGAGCTG 1020  
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Db 1021 GGGTCTCGGGTTGGGATGGTGCATTTGACAGTGTGCTGCCCATGTACAAAGTGAATCTCAT 1080  
Qy 1105 CAGATAAACAAGTGGCAGTGCAGAGGACACACTCGGCCAAAAGATTAACCTGCAGCAGCTTCA 1164  
Db 1081 CAGATAAACAAGTGGCAGTGCAGAGGACACACTCGGCCAAAAGATTAACCTGCAGCAGCTTCA 1140  
Qy 1165 GGAGGAGCTTCATCTGCAGAGGGGCTTCGATCGGCATTTACTGTGATTAAGGAATAT 1224  
Db 1141 GGAGGAGCTTCATCTGCAGAGGGGCTTCGATCGGCATTTACTGTGATTAAGGAATAT 1200  
Qy 1225 CCAACTGATGGATCTGAATTTGCTGCTGACGGATGGGGAAGACAACTATAAGTGG 1284  
Db 1201 CCAACTGATGGATCTGAATTTGCTGCTGACGGATGGGGAAGACAACTATAAGTGG 1260  
Qy 1285 TGCCTTTAACGAGGTCAAAACAAAGTGGTGCATATCCACACAGTGCCTTTGGGGCCCTCT 1344  
Db 1261 TGCCTTTAACGAGGTCAAAACAAAGTGGTGCATATCCACACAGTGCCTTTGGGGCCCTCT 1320  
Qy 1345 GCAGCTCAAGAACTAGAGAGCTGTCCAAAATGACAGGAGTTTACAGACATATGCTTCA 1404  
Db 1321 GCAGCTCAAGAACTAGAGAGCTGTCCAAAATGACAGGAGTTTACAGACATATGCTTCA 1380  
Qy 1405 GATCAAGTTTCAGAACAAATGSCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAATGGA 1464  
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Qy 1525 TGGATGAATGGCACAGTGTGACAGCAACCGTGGGAAAGGACACTTTGTTCTTATC 1584  
Db 1501 TGGATGAATGGCACAGTGTGACAGCAACCGTGGGAAAGGACACTTTGTTCTTATC 1560  
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Db 1621 GGCCTTTGATGGACAAACCAACCAATGGCTTACCTCCAAATCCAGGCAATGCTAAG 1680  
Qy 1705 GTTGGCATTGGAAATACAGTGTGACGCAAGCTCAGCAAACTTGACCTGATGTCAG 1764  
Db 1681 GTTGGCATTGGAAATACAGTGTGACGCAAGCTCAGCAAACTTGACCTGATGTCAG 1740  
Qy 1765 TCCCGTGGCTCAATGCTACCTGCTCCCAATTCAGTGAATTCACAAACGACAGGAC 1824  
Db 1741 TCCCGTGGCTCAATGCTACCTGCTCCCAATTCAGTGAATTCACAAACGACAGGAC 1800  
Qy 1825 ACCAGCAATTCACCGAGCTCTGCTAGTGTATGCAAAATATTCGCAAGAGCTCCCA 1884  
Db 1801 ACCAGCAATTCACCGAGCTCTGCTAGTGTATGCAAAATATTCGCAAGAGCTCCCA 1860  
Qy 1885 ATTCTCAGGGCAGTGTACAGCCCTGATGTAATCAGTGAATGGAAAAACATTAACCTTG 1944  
Db 1861 ATTCTCAGGGCAGTGTACAGCCCTGATGTAATCAGTGAATGGAAAAACATTAACCTTG 1920  
Qy 1945 GAACTACTGGAATTAAGGAGGCTGCTGATGCTACTAAGGATGAGGCTGCTACTCAAG 2004  
Db 1921 GAACTACTGGAATTAAGGAGGCTGCTGATGCTACTAAGGATGAGGCTGCTACTCAAG 1980  
Qy 2005 TATTTTCACAACTTATCACAAGAAATGGATAGATACAGTGTAAAAAGTGGGCTCTGGAGGA 2064  
Db 1981 TATTTTCACAACTTATCACAAGAAATGGATAGATACAGTGTAAAAAGTGGGCTCTGGAGGA 2040  
Qy 2065 GTTAAACGACGACGAGAGTGTATACCCAGAGAGTGGAGCACTGTGTACATACCTGGC 2124  
Db 2041 GTTAAACGACGACGAGAGTGTATACCCAGAGAGTGGAGCACTGTGTACATACCTGGC 2100

Qy 2125 TGGATTGGAATGATGAATCAATGAATCCACCAAGACCTGAAATTAATTAAGGATGAT 2184  
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Qy 2185 GTTCAACAACAAGCAAGTGTGTTTTCAGCAGAACATCTCGGAGGCTCATTTGTGGCTTCT 2244  
Db 2161 GTTCAACAACAAGCAAGTGTGTTTTCAGCAGAACATCTCGGAGGCTCATTTGTGGCTTCT 2220  
Qy 2245 GATGTCCCAATGCTCCCATACCTGATCTTTCCACCTGGCCTCAATCAGGACCTGAAG 2304  
Db 2221 GATGTCCCAATGCTCCCATACCTGATCTTTCCACCTGGCCTCAATCAGGACCTGAAG 2280  
Qy 2305 CGGAAATTCACGGGGGAGTCTCATTAATCTGACTTGGACAGCTCTCGGGGATGATTAT 2364  
Db 2281 CGGAAATTCACGGGGGAGTCTCATTAATCTGACTTGGACAGCTCTCGGGGATGATTAT 2340  
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Qy 2485 TCTCAGGAAGTCTTTTCTTTTAAACCCAGAAAACATTACTTTTGAATAATGGCACAGATCTT 2544  
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Qy 2605 CGAGTATCTTTTGTATTTCTCCACAGACTCGCCAGAGACACCTAGTCTCTGATGAACG 2664  
Db 2581 CGAGTATCTTTTGTATTTCTCCACAGACTCGCCAGAGACACCTAGTCTCTGATGAACG 2640  
Qy 2665 TCTGCTCTCTGCTCTTAATATTCATATCAACAGCACCATTTCTGGCATTCACATTTTAAAA 2724  
Db 2641 TCTGCTCTCTGCTCTTAATATTCATATCAACAGCACCATTTCTGGCATTCACATTTTAAAA 2700  
Qy 2725 ATTATGTGGAAGTGGATAGGAGAACTGCAGTGTCAATAGCCTAG 2769  
Db 2701 ATTATGTGGAAGTGGATAGGAGAACTGCAGTGTCAATAGCCTAG 2745

## RESULT 3

US-09-623-624-1  
; Sequence 1, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473



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; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,110
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,168
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/980,872
; PRIOR FILING DATE: 1997-12-01
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 2931
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (8)...(2746)
US-09-623-624-1

Query Match      59.1%; Score 1764; DB 4; Length 2931;
Best Local Similarity 77.5%; Pred. No. 0;
Matches 2212; Conservative 0; Mismatches 615; Indels 29; Gaps 5;

QY 25 ATGGGCCCCATTAAAGAGTCTGTGTTTCATCTTGAATCTTCACTTCTAGAGGGGCCCTG 84
DB 8 ATGGAACTTTTGAAGAGTCTGTCTTCTCTTGTATCTCCACCTTCTGGAAGGAGTTCTG 67

QY 85 AGTAATTTCACTCAATTCAGCTGAACAACAATGGCTATGAAGGCAATCTGTTGCAATCGAC 144
DB 68 AGTGAGTCCCTATCCACTGAACAACAACGGCTATGAGGCAATCTGCTATCGGCATAGAC 127

QY 145 CCCAATGTGCCAGAAGATGAACACATCTATTCAACAAATAAAGACATGTGTGACCCAGGCA 204
DB 128 CACGAGCTGCCGAAGATGAAGCCCTCATTCACACATAAAGACATGTGTACTCAGGCC 187

QY 205 TCTCTGTATCTGTTGAAGCTCAGAAAGCGATTTTATTTCAAAATGTGTCATTTTG 264
DB 188 TCTCCATACCTGTTGAAGCTCAGAAAGAAAGATTTTACTTCAAAATGTGTCATTTTG 247

QY 265 ATTCTGAAACATGGAAGCAAGGCTGACTATGTGAGACCAAACTTCAGACCTACAA 324
DB 248 ATTCCGAGAGCTGGAAGCAAGGCTGAAATACGAGGCCAAACTTGAAACCTTCAAA 307

QY 325 AATGCTGATGTTCTGTGTTGCTGAGTCTACTCTCTCCAGGTAATGATGAACCTTACACTGAG 384
DB 308 AACGCTGATGTTCTGTATCAACAACAGCCCTCTAGGCAATGATGAGCCCTACACCGAA 367

QY 385 CAGATGGGCAACTGTGGAGAGAGGTGAAGATCCACTCACTCTGATTTCAATGCA 444
DB 368 CATATAGGAGCATGTGGAGAAAGGGGATCAGGATTCAGCTGACTCTGACTTCTTAGCA 427

QY 445 GGAAGAAAGCTAGCTCAATATGACCAACAGGTAGGGCAATTTGTCATAGTGGGCTCAT 504
DB 428 GGAAGAAAGCTAGCTCAGTATGGGCCACAGACAGGACCTTTGTCTCAGTGGGCTCAC 487

QY 505 CTACGATGGGGAGTATTTCACGAGTACAATAATGATGAGAAATTTCTACTTATCCAAATGGA 564
DB 488 TTCCGATGGGGAGTGTAAATGATACACACAGCAGAGAGTTCTACTTATCCAAAGGA 547

QY 565 AGAATCAAGCAGTAAGATGTTTCAGCAGGTATTTACTGGTCAAAATGATAGTAAGAGTGT 624
DB 548 AAACCCCAAGCAGTGAAGTGTTCAGCAGGCAATTTACCGGTAAATAATCAAAGTTCTGTCGTCG 607

QY 625 CAGGGAGGCGCTGTTTACACCAA--AAGATGACATTTCAATAAGTAACAGGACTCTAT 581
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QY 682 GAAAAAGGATGTAGTGTGTTCTTCCAAATCCCGCAGACGAGAGGCTTCTATAATGTTT 741
DB 668 AAAGACAATGTGTATTTGTACAGATTCACACCAAAACGAGNAGGCTTCCATCATGTTT 727

QY 742 GCACAAATGTTGATTTCTATAGTTGAATTTCTGTACAGAAACAAACCAAGAAAGCT 801

728 AACCAAAATATCAATTTCTGTGTGTTGAATTTCTGTACAGAAAAAAATCACAATCAAGAGCC 787
802 CCAACAAGCAAAAAATCAAAATATGCAATCTCCGAAGCACAATGGGAAGTGTATCCGTGATTTCT 861
788 CCAATGATCAAAAAACCAACGATGCAATCTCCGAAGCAGCTGGGAAGTCTATCCAGGAATCT 847
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848 GAGGACTTTCAAGCAAAACCACTCCCATGACAGCCAGCCACCTGCAACCCACCTTCTCACTG 907
922 CTGCAATTTGGAACAAGAAATTTGTGTTTAGTCTTGAACAATCTCGAAGCATGGGCACT 981
908 CTGCAATTTGGAACAAGAAATTTGTGTTTAGTCTTGAACAATCTCGGAGCATGCTGGAAC 967
982 GGTAAACCGCTCAATCGACTGAATCAAGCAGCGCCAGCTTTTCTCTGTCGACAGATTTGAG 1041
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QY 1721 ACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTGCTACGTCCTCGGTCCCAATG 1780  
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QY 421 ACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTGCTACGTCCTCGGTCCCAATG 480  
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QY 481 CTACCTGCTCCCAATTCAGTGACTTCCAAACGAAACAAAGGACACACAGCAAAATCCCCA 540  
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QY 661 GAGCAGGCTGCTGATGTAATGCAATGTAATGGAACAAAGTGTACCTTGGAACTACTGGATAATG 720  
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QY 2441 CTCCTCAAGTGAATCTACTGCTCTCATCCCAAGGAGCAACTCTGAGGAAGTCTTTT 2500  
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QY 1141 CTCCTCAAGTGAATCTACTGCTCTCATCCCAAGGAGCAACTCTGAGGAAGTCTTTT 1200  
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QY 1201 TGTGTTAAACCAAAACATTTACTTTTGAAGTGGACAGATCTTTTCAATGCTATTTCAGG 1260  
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QY 2561 CTGTTGATAAGGTCGATCTGAAATCAGAAATATCCAAATTCAGCAGGATCTTTTGTGTTA 2620  
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QY 2621 TTCCTCCACAGACTCGCCAGAGACACCTAGTCTGATGAAGAGTCTGCTCTGCTTGTCTTA 2680  
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QY 1321 TTCCTCCACAGACTCGCCAGAGACACCTAGTCTGATGAAGAGTCTGCTCTGCTTGTCTTA 1380  
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QY 2681 ATATTCAATATCAACAGCACCATTCCTGGCATTCACATTTTAAATTAATGTCGAAGTGA 2740  
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QY 1381 ATATTCAATATCAACAGCACCATTCCTGGCATTCACATTTTAAATTAATGTCGAAGTGA 1440  
DB |||||

QY 2741 TAGGAGAACTGCAGCTGTCAATAGCTAGGCTGAATTTTGTGATATAAATAAATAA 2800  
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QY 2801 TCATTCACTCTT 2812  
DB |||||  
QY 1501 TCATTCACTCTT 1512  
DB |||||  
RESULT 5  
US-09-049-698-16  
; Sequence 16, Application US/09049698  
; Patent No. 6388722  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITTS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLASS, MICHAEL R.  
; APPLICANT: ROBERTS-RAPE, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; TITLE OF INVENTION: TRACT  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park  
; STATE: IL  
; COUNTRY: USA  
; ZIP: 60064-3500  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: Fast-Seq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/049,698  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/828,856  
; FILING DATE: 31-MAR-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Becker, Cheryl L.  
; REGISTRATION NUMBER: 35,441  
; REFERENCE/DOCKET NUMBER: 6068.US.P1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 847/935-1729  
; TELEFAX: 847/938-2623  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 16:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 3043 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-09-049-698-16  
Query Match 43.9%; Score 1308.6; DB 4; Length 3043;  
Best Local Similarity 69.6%; Pred. No. 0;  
Matches 1866; Conservative 0; Mismatches 794; Indels 21; Gaps 6;  
QY 21 AGCAATGGGGCCATTTAAGAGTTCTGTGTTCATCTTGATTTCTTCACTTCTAGAGGGGC 80  
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Qy 2529 AAATGCGACAGATCTTTTCAATGCTTATTCAGGCTGTTGATAGGTCGATCTGAATCAGA 2588  
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Db 2641 TCCTACTCTACTCTCTACTCTCTACTCTCTGATATAAGTCTATA 2681

## RESULT 6

US-09-049-698-18  
; Sequence 18, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITTS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLASS, MICHAEL R.  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; TITLE OF INVENTION: TRACT  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park  
; STATE: IL  
; COUNTRY: USA  
; ZIP: 60064-3500  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: Fast-SEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/049,698  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/828,856  
; FILING DATE: 31-MAR-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Becker, Cheryl L.  
; REGISTRATION NUMBER: 35,441  
; REFERENCE/DOCKET NUMBER: 6068.US.P1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 847/935-1729  
; TELEFAX: 847/938-2623  
; TELEX:

## ; INFORMATION FOR SEQ ID NO: 18:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 3181 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

US-09-049-698-18

Query Match 43.9%; Score 1308.6; DB 4; Length 3181;  
Best Local Similarity 69.6%; Pred. No. 0;  
Matches 1866; Conservative 0; Mismatches 794; Indels 21; Gaps 6;  
Qy 21 AGCAATGGGGCCATTTAAGAGTTCTGTGTTCATCTTGAATCTTTCACCTCTTGAAGGGGC 80  
Db 21 AACAAATGGGGTTATTACAGAGGTTTGTTCCTCTTAGTCTGTGCTGCTGCACCAAGTC 80  
Qy 81 CTTGAGTAATTCACATCATTACGCTGAACCAACATGCTATGAAGGCAATGCTGCTCAAT 140  
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Qy 141 CGACCCCAATGTGCCAGAGATGAACACACTCAATCAACAAATAAAGGACATGCTGACCCA 200  
Db 138 AGATCCTAGTGTGCCAGAGATGAATAATAATTGAACAATAAGAGATATGCTGACTAC 197  
Qy 201 GGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATTTTATTTCAAAAATGTTGCCAT 260  
Db 198 AGCTTCTACGTACCTGTTTGAAGCCACAGAAAAAAGATTTTTTCAAAAATGATATCTAT 257  
Qy 261 TTTGATTTCTGAAACATGGAACAGGCTGACTATGTGAGACCAAAACTTGAGACCTA 320  
Db 258 ATTAATTCCTGAGAAATGGAAGGAAATCCTCAGTACAAAAGGCCAAACATGAAAAACA 317  
Qy 321 CAAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAAATGATGAACCCCTACAC 380  
Db 318 TAAACATGCTGATGTTATAGTTGCAACCCCTACACTCCAGGTAGAGATGAACCATACAC 377  
Qy 381 TGAGCAGATGGCAACTGTGGAGAGAAGGGTGAAGAGATCCACCTCCTCTGATTTCAAT 440  
Db 378 CAAGCAGTTTCACAGAAATGTGGAGAGAAGGGCAATACATTCACCTTCACCCCTGACCTTCT 437  
Qy 441 TGCAGAAAAAAGTTAGCTGAAATATGGACCAACAGGTAGGCAATTTGTCATGAGTGGGC 500  
Db 438 ACTTGAATAAACAACAAAATGAATATGGACCAACAGCAAACTGTTTGTCCATGAGTGGGC 497  
Qy 501 TCATCTACGATGGGAGTATTTGACAGTACAAATAATGATGAGAAATCTTACTTATCCAA 560  
Db 498 TCACCTCCGTTGGGAGTGTGTTGATGATGATGATGATGATGATGATGATGATGATGAT 557  
Qy 561 ---TGGAAAGATACAAAGCAGTAAGATGTTTCCAGCGGTATTTACTGGTACAAATGATGATA 617  
Db 558 GTCAAAAAAATCGAAAGCAACAAAGGTGTTCCGAGGTATCTCTGTTAGAAATAGAGTTTA 617  
Qy 618 GAAGTGTGAGGAGGAGCTGTTTACCAAAAGATGCAATTCATAAAGTAAACAGACT 677  
Db 618 TAAGTGTCAAGGAGGAGCTGCTTAGTAGAGCATGTCAGAAATTTGATTCACAAACAACT 677  
Qy 678 CTATGAAAAAGGATGTGAGTGTGTTCTCCAATCCCGCCAGAGCGGAGAGCTTCTATAAT 737  
Db 678 GTATGAAAAAGATGTGCAATTTCTTCTGATAAAGTACAAACAGAAAAAGCATCTCAAT 737  
Qy 738 GTTTGCACAAATGTTGATTTCTATAGTTGAAATTTCTGTACAGAACAAACCAACAAAGA 797  
Db 738 GTTTATGCAAAAGTATTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 797  
Qy 798 AGCTCAAAAGGCAAAATCAAAAATGCAATCTCCGAGCACAATGGGAAGTATCGGTGA 857  
Db 798 AGCTCCAAAGCCTACAAAACATAAAGTGCATTTTGAAGTACATGGGAGGTGATTAGCAA 857  
Qy 858 TTCTGAGGACTTTTAAGAAAAACCACTCTTATGACACAGACCCCAACAAATCCCACTTCTC 917  
Db 858 TTCTGAGGATTTTAAAAAACACCATCCCATGTTGACACCACTCTCTCCACCTGCTCTTCTC 917  
Qy 918 ATTGCTGAGATTGGACAAAGAAATTTGTTGTTTGTAGTCTTTGACAAATCTGGAAGCATGCG 977

Db	918	ATTGCTGAAGATCAGTCAAAGAAATTGTCCTTAGTTCTTTGATAAGTCTGGAAGCATGGG	977
Qy	978	GACTGGTAAACCGCCTCAATGACACTGAATCAAGCAGGCGCAGCTTTCCTGCTGCAGACAGT	1037
Db	978	GGGTAAAGACCGCCTAAATCGAATGAATCAAGCAGCAAAACATTTCTGCTGCAGACTGT	1037
Qy	1038	TGAGCTGGGGTCTCTGGGTGGGATGGTGACATTTTGACAGTCTGCCCATGTACAAAGTGA	1097
Db	1038	TGAAATGGATCCTGGGTGGGATGGTTCACCTTTGATAGTACTGCCACTATTGTAATAAA	1097
Qy	1098	ACTCATACAGATAAACAGTGGCAGTGACAGGACACACTGCGCCAAAAGATTACTCTGAGC	1157
Db	1098	GCTAATCCAAATAAAAGCAGTGATGAAGAGAAAACACACTCATGGCAGGATTACCTACATA	1157
Qy	1158	AGCTTCAGGAGGAGCTCCATCTCGACGGGGCTTCGATCGGCATTTACTCTGTATTAGGAA	1217
Db	1158	TCCTCTGGGAGGAATCTCCATCTGCTCTGGAAATTAATATGCAATTCAGGTGATTGGAGA	1217
Qy	1218	GAATAAT- --CCAACTGATGGATCTGAAATTTGTCTGCTGACGGATGGGGAAGACAACAC	1274
Db	1218	GCTACATTCCAAACCTCGATGGATCCGAAGTACTGCTGCTGACTGATGGGAGGATAACAC	1277
Qy	1275	TATAAGTGGGTGCTTTAAACGAGGTCAAACAAAGTGGTGCCATCATCACACAGTCGCTTT	1334
Db	1278	TGCAAGTTCTTGTAATGATGAAGTGAAACAAAGTGGGGCCATTGTTTCAATTTATTTGCTT	1337
Qy	1335	GGGGCCCTCTGCAGCTCAAGNACTAGAGGAGCTGTCCAAAATGACAGGAGGTTTACAGAC	1394
Db	1338	GGGAAGAGCTGCTGATGAAGCAGTAAATAGAGATGAGCAAGATAACAGGAGGAAGTCAATT	1397
Qy	1395	ATATGCTTCAGATCAAGTTCAGAACAATGGCCTCATTTGATGCTTTTGGGGCCCTTTCAATC	1454
Db	1398	TTATGTTTCAGATGAAGCTCAGAACAATGGCCTCATTTGATGCTTTTGGGCTCTTACATC	1457
Qy	1455	AGGAAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTTGAGAGTAAGGATTAACCCCTCCA	1514
Db	1458	AGGAAATACTGATCTCTCCAGAAAGTCCCTTCAGCTCGAAAGTAAGGGAATTAACACTGAA	1517
Qy	1515	GAACAGCCAGTGGATGAATGGCAGACTGATCGTGGAAGCAGCACCGTGGGAAGGACACTTTT	1574
Db	1518	TAGTAATGCTCGGATGAACGACACTGTCAATTTGATAGTACAGTGGGAAGGACAGCTT	1577
Qy	1575	GTTTCTTTATCACCTGGACAACGAGCTCCCAAATCCTTCTCTGGGATCCCACTGGACA	1634
Db	1578	CTTTTCTCATCACATGGAACTGTGCTCTCCAGTATTTCTCTCTGGGATCCCACTGGAACT	1637
Qy	1635	GAAGCAAGGTGGCTTTGTAGTGGACAAAAACAACAAAATGCCCTPACTCTCAAAATCCGAG	1694
Db	1638	AATAATGGAAAAATTTACAGTGGATGCAATCTTCCAAAATGGCTATCTCAGTATTTCCAGG	1697
Qy	1695	CATTGCTAAGTTGGCACTTTGGAAATACAGTCTGC-----AAGCAGCTCAAAACCTT	1748
Db	1698	AACGTCAAAGGTGGGCATTTGGGCATACAACTCTCAAGCCAAAGCGAACCCAGAAACATT	1757
Qy	1749	GACCTCAGCTGACAGTCCCGTGGTCCCAATGCTACCTCGCTCCCAATTACAGTGACTTC	1808
Db	1758	AACATTTACAGTAACCTTCTCGACGACAAATCTTCTGTGCTCTCCAATCACAGTGAATGC	1817
Qy	1809	CAAAACGAAACAAAGGACACCAGCAAAATCCCCAGCCCTCTGGTAGTTTATGCAAAATTCG	1868
Db	1818	TAAATGAATAAGGACGTAAACAGTTTCCCCAGGCCCAATGATGTTTACGCAAAATTTCT	1877
Qy	1869	CCAAGGAGCTCCCAATTTCTCAGGGCCAGTGTACAGCCCTGATGGAATCAGTGAATGG	1928
Db	1878	ACAAGSATATGTACCTGTTCTTGAGGCAATGTGACTTCTTCAATGAAATCAGAAATGG	1937
Qy	1929	AAAAACAGTTACCTTTGGAACTACTTGGATAATGGAGCAGGTGCTGATGCTACTAAGGATGA	1988
Db	1938	ACATACAGAGTTTGGAACTTTTGGATTAATGGTGAGGGCGCTGATTTCTTTCAAGATGA	1997
Qy	1989	CGGTGCTTACTCAAGGTAATTTCAACCTTATGACACGAATGGTAGATACAGTGTAAAAGT	2048

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RESULT 7
US-09-193-562D-1
: Sequence 1, Application US/09193562D
: Patent No. 6309857
: GENERAL INFORMATION:
: APPLICANT: Pauli, Benedicht U.
: TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
: TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
: FILE REFERENCE: 18617.0052
: CURRENT APPLICATION NUMBER: US/09/193,562D
: CURRENT FILING DATE: 1998-11-17
: PRIOR APPLICATION NUMBER: US/60/065,922
: PRIOR FILING DATE: 1997-11-17
: NUMBER OF SEQ ID NOS: 47
: SEQ ID NO 1
: LENGTH: 3317
: TYPE: DNA
: ORGANISM: Unknown
: FEATURE:
: OTHER INFORMATION: sequence encoding Lu-ECAM-1 and Lu-ECAM-1 associ
: OTHER INFORMATION: protein from bovine endothelial cells
US-09-193-562D-1

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Query Match 30.2%; Score 900.2; DB 4; Length 3317;  
Best Local Similarity 61.4%; Pred. No. 1.9e-255;  
Matches 1635; Conservative 0; Mismatches 978; Indels 48; Gaps 10;

Qy	5	TCACAGGGAGATGTACAGCAATGGGGCCATTTTAAGAGTTCGTGTTCATCTTGATCTTTC	64
Db	43	TTACTGTAAACATGTGCAGAAAATGGTCTGTCTGTAATGTTATTCGTCTCTAACTTTGC	102
Qy	65	ACCTTCTAGAAAGGGCCCTGAGTAAATTCACCTCATTAGCTGAACACAAATGGCTGTGAAG	124
Db	103	ATCTCTTGGCTGG---AATGAAAGTTTCAATGGTAAATTTGATTAACAATGGGTGTATG	159
Qy	125	GCATTTGCTGTGCAATCGACCCCAATGTGCAGAAAGATGAAACACTCATTCAACAATAAA	184
Db	160	GCATTTGCTGCAATTTAAACCCAGTGTCCAGNAGATGAAAACCTCATTGAAAACATAA	219
Qy	185	AGGACATGGTGACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGGAAACGATTTTATT	244
Db	220	AGGAAATGGTAACCTGAAGCTTCTACTTTACCTGTTTCATGCCACCAACGAAAGAGTTTATT	279
Qy	245	TCAAAAATGTTGCCATTTTGGTTCCTGAAACATGGAAGACAAAGGCTGACTATGTGAGAC	304
Db	280	TCAGGAATGTGACATTTTAAATTTTCCATGATGACCTGGAAATCAAAATCTGAGTACTTCATAC	339
Qy	305	CAAAACTTGTAGACCTTACAAAATGCTCATGTTCTGTGTTGCTGAGTCTACTCTCCAGGTA	364
Db	340	CAAAACAAGAAATCATATGACAGGCAGATGTCAAGTTGCTTAATCCCTATCTAAATATG	399
Qy	365	ATGATGAACCCCTACACTGTGAGCAGATGGGCAACTGTGTGAGAGAAAGGTTGAAGGATCCACC	424
Db	400	GAGATGATCCCTATACACTTCAATATGGAAGGTGTGAGAGAAAAGGAAATATATACATT	459
Qy	425	TCATCTCTGATTTTCATTGACGAGAAAAGTTAGCTGTAATATGACACCAAGGTAGGGCAT	484
Db	460	TTACTCCAAACTTCTTTGTTGACTAAATAATTTCCACATCTATGGGTCCGAGGCAGAGTAT	519
Qy	485	TTGTCCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAATAATGATGAGA	544
Db	520	TTGTCCATGAGTGGGCCCATCTCCGCTGGGGAATATTTGATGAGTATAATGTGGACGAC	579
Qy	545	AAATCTACTTTATCC---AATGGGAAGATACAAGCAGTAAGATGTTTCAGCAGGTATTACTG	601
Db	580	CATTCTATATTTCCAGAGAAGAACACTATTGAAGCAACAAGATGTTCACTCATATTACTG	639
Qy	602	GTACAAATGTAG---TAAAGAAGTGTACAGGAGGCAGCTGTTCACCAAAAGATGCACAT	658
Db	640	GTATTAATGTGTTTTCACGAAATGCCCCTGGAGGCAGCTGTATAAACAGTCTATGACAGC	699
Qy	659	TCATAAAGTAAACAGGACTCTATGAAAAGATGTGAGTTTGTTCCTCCAATCCGCCAGA	718
Db	700	GTGACTCACAGACAGGCGCTGTATGAAGCAAAATGTACATTCCTTCCAAAATAATCCCAGA	759
Qy	719	CGGAGAAGGCTTCTATTAATGTTTGCAACAATGTTGATTTCTATAGTTGAAATCTGTACAG	778
Db	760	CTGCAAGGAATCCATTATGTTTATGTATGCAAGTCTCCATCTCTGTCAGTGAATTTGTACAG	819
Qy	779	AACAAAACCAACAAGAAAGCTCCAAAAGCAAAAATCAAAAATGCAATCTCCGGAAGCA	838
Db	820	AAAAAACACAAATACAGAAAGCTCCAAACCTACAAAAACAAATGTGCAATGGCAAAAGCA	879
Qy	839	CATGGGAAGTATCCGTTGATTTCTGAGACATTTAAGRAAACCACTCTCATGACA-----A	892
Db	880	CATGGGATGTAATCATGAACTCTGTGTACATTTTTCAGAAATACATCTCCCATGACGAATGA	939
Qy	893	CACAGCCACCAAAATCCCACTTCTCATTGTCTGAGATTTGGACAAAAGATTTGTGTTTAG	952
Db	940	ATCCACCGACTCATCTTACATTTTTCATTTGCTCAAGTCCAAACAGCGGGTAGTCTGTTTG	999
Qy	953	TCCTTGACAAATCTGGAAGCATGCGCACTGGTAAACCGCTCAATTCGACTGAATCAAGCAG	1012
Db	1000	TACTTGTATAAATCTGGAAGCATGTCTCAGAAAGACCGCTCTCTTTTCAAAATGAATCAAGCAG	1059
Qy	1013	GCCAGCTTTTCTGCTGACAGACAGTTGAGCTGGGCTCTGGGTTGGGATGGTGACATTTG	1072
Db	1060	CAGAACTATACTTGAATCAAGTTATTGAAAAGGGATCTTTTAGTTGGGATGGTTACATTTG	1119

Qy	1073	ACAGTGTGCTCCCAATGTACAAAGTGAAGACTCATACAGATAAACAAGTGCAGTGCACAGGACA	1132
Db	1120	ACAGTGTGCTGAAATCCAAAATCATCTAACRAGAAATAACTGATGATTAATGTTTACCAA	1179
Qy	1133	CACTCGCCAAAAGATTACCTGCAGCAGCTTCAGAGGGAGCTCATCTGCAGCGGGCTTC	1192
Db	1180	AGATACCGGCHAACTGGCTCAAGTAGCTTAATGGTGGAACTTCAATTTGTAGAGGGCTCA	1239
Qy	1193	GATCGGCATTTACTGTGATTAGGAAGA---AATATCCAACCTGATGGATCTGAAATTTGTGC	1249
Db	1240	AAGCAGGATTCACGGCAATTAATCCACAGTGACCAGAGTACTTCTGCTGTCTGAAATCATATC	1299
Qy	1250	TGCTGACGGATGGGAAGACAAACCTATAAGTGGGTGCTTTAAACGAGGTCAACAACAGTG	1309
Db	1300	TATTAACTGATGGGAAGATAATGAATAAAATTCATGCTTTTGAGGATGTAAACGAAGTG	1359
Qy	1310	GTGCCATATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAGCTGT	1369
Db	1360	GTGCAATCATCCACACCATTTGCTCTGGGACCTCTCTGTCGCAAGAAGCTTGGAGACATTGT	1419
Qy	1370	CCAAAATGACAGGAGGTTTACAGACATATGCTTTTCAGATCAAAGTTTCAGAACAATGGGCTCA	1429
Db	1420	CAAAATGACAGAGGATATCGTTTTTTTGGCCAATAAGACATA-----ACTGGCCTTA	1473
Qy	1430	TTGATGCTTTTGGGGCCCTTTCAATAGGAAATGGAGCTGTCTCTACGCGTCCATCCAGC	1489
Db	1474	CTAATGCTTTTCAGTAGAAATTTTCATCTAGAAGTGGAAAGCATCACTCAGCAGGCTATTTCAGT	1533
Qy	1490	TTGAGAGTAGGAGATTAAACCTCCAGAACGCCAGTGGATGATGCGACAGTGCATCGTGG	1549
Db	1534	TGGAAAGCAAGGCTTTGAAAAATTTACAGGAAGGAAAGAGTAACCGGCACAGTGCCTGTAG	1593
Qy	1550	ACAGCACGCTGGGAAAGGACACTTTTGTTCTTATCACTGGACAAACGCGACCTCCCCAAA	1609
Db	1594	ACAGTACAGTTGGAAATGACACTTTCTTTGTTGTCATGGAACAATAACAAAACCCAGAAA	1653
Qy	1610	TCCTTCTCTGGGATCCCAAGTGGACAGAAGCA-----AGTGGCTTTGTAGTGGACA	1660
Db	1654	TTGTTCTCCAAGATCCAAAAGGAAAGAAATATAAAACCTCGGATTTCAAAGAAGATAAGT	1713
Qy	1661	AAAACACCAAAATGGGCTTACCTCCAAATCCCAGGCATGCTTAGGTTGGCAGCTTGGAAAT	1720
Db	1714	TAAATATTGCAATCTGCTCGTCTGCAAAATACCTGGTATTGCAGAGACAGGTACTTTGACATT	1773
Qy	1721	ACAGTCT-----GCAAGCAGCTCAAAAACCTTGACCTCGACTGTGCACCTCCCGCTG	1771
Db	1774	ACAGCCTCTAAATAATCATGCCAGCTCTCAAAATGCTAACAGTGAACAGTGCACCTCGAG	1833
Qy	1772	CGTCCAATGTAACCTGCGCTCCAAATTACAGTGAATCTCCAAAACGAAACAAAGCACACAGCA	1831
Db	1834	CAAGAACTCCTACTATACCCCAAGTAATTGCAACAGCTCACATGAGTCAACATACAGCAC	1893
Qy	1832	AATTTCCCGACCTCTGGTAGTTTATGCAAAATTTGCGCAAGAGGCTCCCCAAATTTCTCA	1891
Db	1894	ATTATCCTAGCCCAATGAATGTTTATATGCAAGTCAAGTCAAGTCAAGGGTTTTTGCTGTACTGG	1953
Qy	1892	GGGCGAGTGCAAGCGCTGATTGAATCAGTGAATGGAAAAACAGTTTACTCTTGGAAGTAC	1951
Db	1954	GAATCAGTGAATAGCAATTATAGAAACCGAAGATGGACATCAAGTAAACATTTGGAGCTCT	2013
Qy	1952	TGGATAATGGAGCAGGTGCTGATGCTACTAAGAGATGACCGGTGTCTACTCAAGGATTTTCA	2011
Db	2014	GGGACAAATGGTCAGGTTCGTGACTGTCAAGAAATGATGGCATCTACTCAAGATACTTTA	2073
Qy	2012	CAACTTATGACGAATGGTAGATACAGTGTAAAGTGGGGCTCTGGGAGNGGTTAAAG	2071
Db	2074	CAGATTACTATGGAAATGGTAGATACAGTGTAAAGTATAATGACAGGCAAGAAACAA	2133
Qy	2072	CAGCCAGCGAGGTGATACCCACAGAGTGGAGCACTGTATCATACCTGGCTGGATTCG	2131
Db	2134	CGGCTAGGCTAAATTTAAGACAAACCAAGTCTTATATGTTCCAGGCTACGTTG	2193
Qy	2132	AGAATGATGAAATACAAATGGNAATCCCAAGACCTGAAATTTATAAGGATGATGTTTCAAC	2191



Db 2194 AAAACGGTAAATATATCTGAACCCACCCAGACCTGAAGTCAAGATGACCTGGCAAAAG 2253  
Qy 2192 ACAAGCAAGTGTGTTTCAGCAGAAATCCTCGGAGGCTCATTTGCTGCTTCTGATGCC 2251  
Db 2254 CTAAATAGAAGACTTTAGCAGACTAACTCTGGAGGGTCAATTTACTGTATCAGAGCTC 2313  
Qy 2252 CAAATGCTCCCA---TACTGTATCTTCCCACTTGGCCAAATCAACGACCTGAAGGGCG 2308  
Db 2314 CTCCTCTGGTAAATCACCCCTCTGTGTTCCACCCAGTAAATTAAGATCTTGAGGCTA 2373  
Qy 2309 AAATTCACGGGGGAGTCTCATTAATCTGACTTGGACAGCTCCTCGGGATGATTATGACC 2368  
Db 2374 AGTTCAAAGAAG---ATTATATTCAACTTTCATGACAGCCCTGGCAATGCTCTAGATA 2430  
Qy 2369 ATGGAAACAGCTCACAAGATATATCTGATATCAATGATGATGATGATGATGATGATGAT 2428  
Db 2431 AAGGAAAGCCCAACAGCTACATTAAGAATTAAGTAAGATGATGATGATGATGATGATGAT 2490  
Qy 2429 AGTTCAATGAATCTCTTCAAGTGAATCTACTGCTCTCATCCCAAGGAAGCAACTCTG 2488  
Db 2491 ATTTGACATCGCACTTTAGTGAATATCTTAAATCTAATCTAAGGAGGCGCGATCAA 2550  
Qy 2489 AGGAAGTCTTTTGTGTTAAACAGAAACATTAATCTTTGAAATGGCAGAGATCTTTTCA 2548  
Db 2551 AAGAAATTTTGAATTTAAGCCAGAACATTTTATAGATAGAAATGGCAATTTCTATA 2610  
Qy 2549 TTGCTATTACAGCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2608  
Db 2611 TTTAGTCAAGCCATCAAGGAAGCAATCTCATCTCAGAGGTTTCTCACATTTGTACAAG 2670  
Qy 2609 TATCTTTGTTTATCTCTCAC 2629  
Db 2671 CAATCAAAATTTATCTCTTAC 2691

RESULT 8

US-09-193-562D-33  
; Sequence 33, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedict U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 33  
; LENGTH: 3022  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-09-193-562D-33

Query Match 28.2%; Score 840.6; DB 4; Length 3022;  
Best Local Similarity 60.5%; Pred. No. 7.3e-238;  
Matches 1554; Conservative 0; Mismatches 974; Indels 39; Gaps 9;  
Qy 91 TCACCTCATTCAGCTGAACAAATGGCTATGAAGGCAATGCTGTTGCAATCGACCCCAAT 150  
Db 81 TCATGGTGCATCTCAACAGCAATGATGATGATGATGATGATGATGATGATGATGATGAT 140  
Qy 151 GTGCCAGAGATGAACACTCATTCACAAATPAAAGGACATGGTACCCAGGCAATCTCTG 210  
Db 141 GTGCCAGAGAGCAAGGCTCATCCCAAGCAATAAAGGAAATGGTAACCTCAAGCTTCTACC 200  
Qy 211 TATCTGTTGAGCTTACAGGAAGGATTTATTTCAAAATGTTGCCATTTGATTCCT 270  
Db 201 TACCTGTTTGAAGCCAGCCAGGAAGAGTATTTATTCAGGAACATAAGCATATATTAGTCCG 260  
Qy 271 GAAACATGGAAGACAAAGGCTGACTATGTGAGACCAAACTTGAGACCTTACAAATATGCT 330

Db 261 ATGACCTGGAAGTCAAAATCTGAGTACTTAATGCAAAACGAGAAATCGTACGACAAAGCA 320  
Qy 331 GATGTTCTGGTGTGAGTCTACTCCTCCAGGTAAATGATGAACCTTACTGAGCAGATG 390  
Db 321 GACGTGATGTTGGGATTCCTCACTGCAACATGGAGAGCAGCCCTACACCTTCTCAGTAT 380  
Qy 391 GGCAACTGTGAGAGAGAGGGTGAAGAGTCAACCTCACTCTCTGATTTCTATTCAGGAAAA 450  
Db 381 GGCAGGTGTGGGACAGAGGACAGTACATACCTTCACTCCAACTTCTACTCTACTGAT 440  
Qy 451 AAGTTAGCTGAATATGGACCAAGGTAGGCAATTTGTCATGATGATGGGCTCATCTACA 510  
Db 441 AACTTGCATATCTATGGACCCCGAGGACAGTCTTTGTCTCATGATGATGGGCGCCATCTCCG 500  
Qy 511 TGGGGAGTATTTGACGAGTACAATAATGATGAGAAATTTCTACTTATCA---ATGGAAGA 567  
Db 501 TGGGGAGTATTTGATGAGTATAACGTGGACCGGTCACTTTTACATTTCTAGAAAGAACACT 560  
Qy 568 ATACAAGCAGTAAGATGTTCAAGCAGGTATTACTGTGTAATAATGTAATAAGAGTGTCA 627  
Db 561 ATAGAGGCAACAGGTGCTCCGACGATCACAGGCAAGAGGTGCTCCACGAGTGTCA 620  
Qy 628 GGAGCAGCTGTTACACCAAAAGATGCAATTTCAATAAAGTAACAGGACTCTTATGAAAA 687  
Db 621 AGAGCAGCTGTGTGACAAAGGGGTGCGCGGTGACTCGAAGACACGCTGTATGAACCC 680  
Qy 688 GGATGTGATGTTGTTCTCCAAATCCGCGCAGAGGAGAGGCTTCTATTAATGTTGCA 747  
Db 681 AAATGTACATTTATCCCAAGCAAAATACAGACAGCTGGGGGCTTCCATTAATGTTCA 740  
Qy 748 CATGTTGATCTATGTTGAATTTCTGTACAGAAACAAACCAACAAAGAGAGTCTCAAA 807  
Db 741 AACCTCAATCTGTGTTGAATTTTGTACAGAAATAACCAATGCAAGAGGCCCAAC 800  
Qy 808 AAGCAAAATCAAAATGCAATCTCCGAGCAGTGGGAAGTGAATCGGTGATTTCTGAGGAC 867  
Db 801 CTACAAACAAATGCAATCGCAGAGCAGTGGGATGTAATCAAGACGCTCTCTGAC 860  
Qy 868 TTTAAGAAACACTCTCTATG-----ACAACAGCCACCAAAATCCACCTTCTCATG 921  
Db 861 TTTCAGATGCGCCCTCCCATGAGAGGAAACAGAAAGCCCTCTCCACCTTACATTTTATCTG 920  
Qy 922 CTGAGATTTGACAAAGAAATTTGTTGTTAGTCTTGAATAATCTGGAAGATGCGGACT 981  
Db 921 CTCAGTCCAGAGCGGAGTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 980  
Qy 982 GGTAAACGCTCAATCGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGTCAGACAGTTGAG 1041  
Db 981 GAAGACCGTCTTATTTCGAATGAATCAAGCAGCAGAACTGTACTTAACCTCAAAATGTTGGA 1040  
Qy 1042 CTGGGCTCTGGTTGGATGTTGACATTTGACAGTGTGCTGCCATGTACAAAGTGAATCT 1101  
Db 1041 AAGGAGTCTATGTTGGATTTAGTACATTTGACAGCGCTGCCACATCCAAATTTATCTA 1100  
Qy 1102 ATACAGATAAAACAGTGGCAGTGACAGGACACACTCGCCAAAAGATTACCTGACAGCT 1161  
Db 1101 ATAAATTAACGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1160  
Qy 1162 TCAGAGGAGCTCCATCTGAGCGGGTTCGATGCGCAATTTACTGTGATTA---GGAAG 1218  
Db 1161 TCTGGTGAATCTCAATTTGCCATGGAATCCAGGAGGATTTTCAGGCAATTTACTCTCCAGT 1220  
Qy 1219 AAATATCAACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1278  
Db 1221 GACCAGAGCACTTCGGGTTCTGAGATCGTATTTGTTGACAGATGGGGAAGATAATGGAATA 1280  
Qy 1279 AGTGGGCTTTTAAAGAGTCAAAACAAAGTGTGCTCATCTCCACACAGTCTGCTTTGGG 1338  
Db 1281 GTTCTCTGTTGAGGCGCTCTCTGAGCGGCTGCTATCCACCATCCATGCTCTGCTGGG 1340  
Qy 1339 CCCTCTGACGCTCAAGAACTAGAGAGCTGTCCAAATATGACAGGAGTTTACAGACATAT 1398



Db 1341 CTTTCGGTGGCCGAGAACTGGAGACTCTGTGGACATGACAGAGGGGCTTCGTTCTAT 1400  
QY 1399 GCTTCAGATCAAGTTTCAGAAATGCGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGA 1458  
Db 1401 GCGCAAAAGACCT-----AAACAGCCTTATCGATGCTTTTCAGTAGAATTTCACTACA 1454  
QY 1459 AATGGAGCTGTCTTCAGGCTCCATCCAGCTTGAGAGTAAGGATTAACCCCTCCAGAAC 1518  
Db 1455 AGTGGCAGCGTCTCCAGCAGGCTCTGCAGTTGGAGAGCAAGCCCTTCGATGTCCAGAGCA 1514  
QY 1519 AGCCAGTGTGATCAATGGCAGTGTCTGGACAGCAGCCGTGGGAAAGGACACTTTGTTT 1578  
Db 1515 GGGGATGATGAACGTTAGTACCTCTGGACAGTACCGTCCGCAACGACAGCTTCTTT 1574  
QY 1579 TTATCACCTGGACAAACGAGGCTCCCCAAATCCTTCTCGGATCCCCAGTGGACAGAG 1638  
Db 1575 GTTATCACCTGGATGTAAAGGAGCAGAAATCATTTCTCAAGATCCAAAGGAAAGAAA 1634  
QY 1639 CA-----AGTGGCTTTGTAGTGGACAAACACCAAAATGGCCTTACCTCAAATC 1689  
Db 1635 TATACAACCTCAGATTTTCAAGATGATAAATACTAAACATCCGCTCTGTAGACTTCAAATA 1694  
QY 1690 CCAGGCAATGCTAAGTTGGCACTTGGAAATACAG---TCTCAAGCAAGCTCACAAACC 1746  
Db 1695 CCGGCACTGCAGACAGAGTACTTTGGACTTACGCTACACGGGTACCAAGTCTCAGTTG 1754  
QY 1747 TTGACCTGACTGTCACTGCTCGGTCGCTCCAAATGCTTACCTGCTCCCTCCAAATACAGTACT 1806  
Db 1755 ATTACAAATGACAGTACCACTCGAGCAAGAAAGTCCCAACATGGAACCACTCTCGGGTAC 1814  
QY 1807 TCCAAAGCAAGCAAGCAACAGCACTTCCAGCAAAATTCGCCAGCCCTCTGGTAGTTTATGCAATAT 1866  
Db 1815 TGCTACATGAGTCAGACAGACAGCCAGTACCTAGCCGATGATGTGTACGACGGGTC 1874  
QY 1867 CGCCAGAGGCTCCCAATTTCTAGGCGCAGTGTACAGCCCTGATGAATCAAGTAT 1926  
Db 1875 AGCCAGGATTTTTCGCTGTTCTGGAGCCATGTACAGCCCTCATAGAAGCTGAACAT 1934  
QY 1927 GGAAGAAACAGTTTACCTTGGAACTACTGGAATAATGGAGCAGGTGCTGATCTACTAAGAT 1986  
Db 1935 GGACATCAAGTCACCTTGGAGCTCTGGACATGGGCAAGTGTGATATCGTTAAAT 1994  
QY 1987 GACGCTGTCTACTAAGGTATTTCAACTTATGACAGAAATGGTAGATACAGTGTAA 2046  
Db 1995 GATGCGATCTACACAAGATACTTTACAGATTATCATGGAATGGTAGATACAGCCTAAA 2054  
QY 2047 GTGCGGCTCTGGAGGAGTTAACGCAAGCAGCAGGAGTATATCCCGCAGAGTGA 2106  
Db 2055 GTGCGGTGCCAGGCAAGAAAGCAAAACCAAGCTGAGCTTAAGA---CAGAAGAACAAAG 2111  
QY 2107 GCACGTGTACATACCTGGCTGGATTCAGATGATGAATAATGAATCCCAAGACCT 2166  
Db 2112 TCTTTATATATACCTGGCTGTGGAATGTAATGTAATGTAATGTAATGTAATGTAATGTAAT 2171  
QY 2167 GAAATTAATAGGATGATTTCAACAACAAGCAAGTGTGTTTCAGCAGAACATCTCTCGGA 2226  
Db 2172 GATGTCCAAAGAAAGCCATAGAAGCTACAGTGAAGACTTCAACAGAGTAACCTCTGGA 2231  
QY 2227 GGCCTATT---TGTGGCTTCTGATGTCCTCAATGCTCCATACCTGATCTCTCCACCT 2283  
Db 2232 GGGTCTGTTTACTGTGTCTGGAGCGCCCTGTGATGGGACACGCTCGTGTGTTCCACCA 2291  
QY 2284 GGCCTAAATCACCGACTGAAGCGGAAATTCACGGGGGAGTCTCATTAATCTGATCTGG 2343  
Db 2292 AGTAAAGTTCAGACCTGGAGGCTGAGTTTATAGGTG---ATTATATTCACCTTACATGG 2348  
QY 2344 ACAGCTCTCTGGGATGATTTATGACCAATGGAACAGCTCACAGTATATCATCTTCAAATAAGT 2403  
Db 2349 ACGGCCCCGCAAGGTTCTCGACAAATGGAAGACATAGATACATCATCAGATGAGC 2408  
QY 2404 ACAAGTATCTTGATCTCAGAGACAGTTCATGAAATCTCTTCAAGTGAATCTACTGCT 2463  
Db 2409 CAGCATCTCTGATCTCCAAAGAAATTTTAAATGCTTACTTTAGTGAATGCTTCCAGT 2468

QY 2464 CTCATCCCAAGGAAGCCAACTCTCAGGAAGTCTTTTGTGTTTAAACCAAGAAACATTACT 2523  
Db 2469 CTGATACCTAAAGAGCTGGCTCAAGAGAGCATTTAAATTCAAACCAAGAACTTTTAAA 2528  
QY 2524 TTTGAAATGGCACAGATCTTTTCATTCCTATTTCAGGCTGTTGATAAGTCTGCTGAAA 2583  
Db 2529 ATAGCAATGGCATCCAGCTCTACATTCGAATCCAGGCAAGCAATGAAGCCAGTCTCAC 2588  
QY 2584 TCAGAAATATCAACATTCGACGAGTATCTTTGTTTATTCCTCCACA 2630  
Db 2589 TCTGAGGTCTCAACATCGCACAGGCTGTCAAGCTTACTTCTCTAGA 2635

## RESULT 9

US-09-193-562D-29  
; Sequence 29, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 29  
; LENGTH: 3418  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-193-562D-29

Query Match 27.9%; Score 832.6; DB 4; Length 3418;  
Best Local Similarity 59.9%; Pred. No. 1.8e-235;  
Matches 1603; Conservative 0; Mismatches 979; Indels 93; Gaps 9;

QY 46 GTGTTTCATCTTCATTTCTTCCACCTTCTAGAAAGGGGCGCTGAGTAATTCATCTATTCAGCTG 105  
Db 37 GTGATTCCTTCTCTATCTTCTGCTTCTCTCGCTGATTTGAAAAGCTCACTGGTAACCTTG 96  
QY 106 AACAAATATGCTATGAAGGCAATGCTGTGCAATGCAACCAATGTCAGAAAGATGAA 165  
Db 97 AATAAATATGATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 156  
QY 166 ACATCTATTCACAAATTAAGGACATGTCAGCCAGGCACTCTGATCTGTTTGAAGCT 225  
Db 157 AAATCTATTCACAAATTAAGGAAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 216  
QY 226 ACAGGAAAGCGATTTTATTTCAAAAATGTTGCAATTTTTCATTTCTGAAACATGGAAGACA 285  
Db 217 ACCAAACAAGAGCTTTATTTAGGAATGTAAGCAATTTTAAATTCATGACCTACAAATCA 276  
QY 286 AAGGCTGATCTGTGAGACCAAAATCTGAGACCTTCAAAAATGCTGATGTTCTGTTGCT 345  
Db 277 AAATCTGATGATCTAAATCCAAACAAGAAACATATGACAGGAGATGTCATAGTTGCT 336  
QY 346 GAGTCTACTCTCCAGGTAAATGATGAAACCTTACACTGACAGATGGGCACTGTGAGAG 405  
Db 337 GATCTTTACCTGAAATACGAGATGATCCCTATATACATTTCAATATATGCAATGTTGAGAT 396  
QY 406 AAGGCTGAAAGGATCCACTCTCATCTGATTTTCATTTGCAAGGAAAGGTTAGCTGAATAT 465  
Db 397 AAAGCAATATATATATTTTACTTCAAACTTTCTGTTGACTAATTAATTTGGTACCTAT 456  
QY 466 GGACCAAGGTPAGGCAATTTGTCATGAGTGGGCTCATCTACATGAGGAGTATTTGAC 525  
Db 457 GGGCTCGAGGTAAAGTATTTGTCATGAGTGGGCGCCATCTCCGGTGGGAGTATTTGAT 516  
QY 526 GAGTCAATATATGATGAGAAATTTCTACTTATCCAAATGGA---AGAATACAGCAGTAAAG 582  
Db 517 GAGTATATGTTGAGCAGCAGCTTCTATATTTTCCAGAAAGAAACACTACTGAAAGCAACAGA 576

QY 583 TGTTGAGAGGATTTACTGTTACAAATGTAGTAAAGAAAGTGTACGGGAGGAGCTGTTTAC 642  
DB 577 TGTTCCATCTGTTACTGTTTACATGTTTGAACGAATGCAAGGGGCCAGCTGTATTA 636  
QY 643 ACCAAAGATGCACATCAATCAATAAGTAAACAGAGCTCTATGAAAGAGGTGAGTTTGT 702  
DB 637 GCACGACCATTCAGACGTTGACTCACAGACAGGGCTGTATGAAGCAAAATGTACATTTATC 696  
QY 703 CTCGAATCCGGCAGACGGAGAGCTTCTAATGTTTGGACACATGTTGATTTCTATA 762  
DB 697 CCAAGAGATCCAGACTGCCAAGGAATCCAATGTTGTTATGCAAAATCTTGATTTCTGTG 756  
QY 763 GTTGAATTTCTGACAGAAACAAACCAACAAAGAGCTCCAAACAGCAAAATCAAAAA 822  
DB 757 ACTGAATTTTGTACTGAAAGAAACACACAAATAAGAGCTCCAACTATATACAAATG 816  
QY 823 TGCAATCTCCGAAGCACATGGGAAGTATCGGTGATTTCTGAGGACTTTAAGAAACCACT 882  
DB 817 TGCAATCACAGAGCACATGGGATGTAATCATGAGCTCTGAAGATTTTTCAGCATTTATCT 876  
QY 883 CCTATGAC---AACACGCCACCAATCCACCTTCTCATTTGCTGCAGATTGGACAAAGA 939  
DB 877 CCCATGACAGAAATAAATTTACCTGCTCTACATTTTCAATTTGCTCAAGTCCAAACAGCGT 936  
QY 940 ATTGTTGTTTGTAGTCTTGACAAATCTGAAGCATGGGAGCTGGTAACCGCTCAATCGA 999  
DB 937 GTAGTCTGTTGTGTTACTGTAATTAATCTGGAAGCATGAATGCAAGACCGTCTCTTTGCA 996  
QY 1000 CTGAATCAAGCAGGCGCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGCTCTGGGTTGGG 1059  
DB 997 ATGAATCAAGCAGCAGAAATTTGTTACTTGAATCAATTTATGAAAGGGATCTTGGTTGGG 1056  
QY 1060 ATGGTGACATTTGACAGTCTGCCCATGTGAACAGTGAACTCATACAGATTAACAGTGGC 1119  
DB 1057 TTGGTGCATTTGACAGTTTGTCTAAATCCAAAGTAAAGCTCATAAAAATTAATGATGAT 1116  
QY 1120 AGTGACAGGGACACACTCGCCAAAGATTTACCTGCAGCAGCTTTCAGGAGGAGCTCCATC 1179  
DB 1117 AACCTTACCAAAAGATCACTGCAAAACCTGCTCAAGAGCTGATGGTGGCACTTCAAT 1176  
QY 1180 TGCAGCGGCTTCGATCGGCAATTTACTGTGATTTAGGAAGAAATATC---CAACTGATGGA 1236  
DB 1177 TGCAGGGGACTCAAGCAGGATTTTCAGGCAATTTCCCGAGAGTAATCAGAGTACTTTCCGT 1236  
QY 1237 TCTGAATTTGCTGCTGACGGATGGGGAAGCAACACTAATGTTGGGTGCTTTTAACGAG 1296  
DB 1237 TCTGAATCATATTACTAAACAGATGGGAAGATTTATCAATAAGCTTATGCTTTTGGAGAG 1296  
QY 1297 GTCAAACAAAGTGGTGCATCATCCACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAA 1356  
DB 1297 GTAACAAAGTGGGCAGTCTTCCACACCATTTGCTCTGGGGCCGCTGCTGACGAGAA 1356  
QY 1357 CTAGAGGAGCTGTCCAAATGACAGGAGTTTACAGACATA----- 1397  
DB 1357 CTGGAGACCTGTCAAATATGACAGATTTACATAAGGGACACTGTTATACTGAAAGTTCA 1416  
QY 1398 -----TGCTTCAGATCAAGTTTCAGAACAT 1422  
DB 1417 TATAGTGTGGGAAGTTTCATCTTTTGTGGACATCGTTTTTATGCCCCATAAAAAATAAAT 1476  
QY 1423 GGCCTCATTTGATGCTTTTGGGGCCCTTTCATCAGGAATGGAGCTGCTCTCAGCGCTCC 1482  
DB 1477 GGCCTTATTTGATGCTTTCAGCAGAAATTTTCATCTAGAAGTGGGAGCATCTCTCAGCGGT 1536  
QY 1483 ATCCAGCTTGAGAGTAAGGGAATTAACCTCCAGAAACAGCAGTGGATGAATGGCACAGTG 1542  
DB 1537 CTTCAAGTTGGAAAGTAAACCTTTGAATATCCAGCGAAGAAATGATAAATGGTACAGTG 1596  
QY 1543 ATCGTGGACAGACCGTGGGAAAGACACTTTGTTTCTTATCACCTGGACACAGCGCT 1602  
DB 1597 CCTGTGGATAGTACAGTTAGAAATGATCTTCTCTTTGTTGTGCATGGACATGACATAAAAA 1656

QY 1603 CCCAAATCTTCTCTGGGATCCAGTGGACAGAAAGGTGGCTTTGT-----A 1653  
DB 1657 CCAGCAATTAATTTCTCAAGATCCAAAGGAAAAAATATACTACCTCAGATTTTCAAGAA 1716  
QY 1654 GTGGACAAAAACACAAATATGCGCTTACTCCTCAATCCAGGCAATGCTAAGTTTGGCACT 1713  
DB 1717 GGTGAACCTAAATATTTGCGTCTGCCCGTCTCGAATACCAGGTATTTGCGAGACAGCGCACT 1776  
QY 1714 TGGAAATACAGTCTGCA-----GCAAGCTCACAAACCTTGACCTGCTACTGTCAG 1764  
DB 1777 TGGACTTACAGGTTTGGAAACAATCATACCAAAATCTCAATTTGCTAATCTGTGCAATGAC 1836  
QY 1765 TCCGTTGCTGCTCAATGTCTACCTGCTCCTCAATTTACAGTGACTTCCAAACCAAGAGAC 1824  
DB 1837 ACTCGAGCAAGAGCCCTTACCACACTCCCACTGCTCAATTTGCACTGCTCAGTCAAT 1896  
QY 1825 ACCAGCAATTTCCAGCCCTCTGTTAGTTTATGCAAAATATTTGCAAGAGGAGCTCCCA 1884  
DB 1897 ACAGTCAATTTACCTTAGCCCACTGATTTGTTATGCAATGCTCAGTCAAGGGTTTCTTCT 1956  
QY 1885 ATTCTCAGGGCCAGTGTCCACAGCCCTGATTCGAATCAGTGAATGGAAAAACAGTTACCTTG 1944  
DB 1957 GTTCTGGGAATCAATGTAAACAGCATTTAGAAAATGAAGAGGACATCAAGTAACATTTG 2016  
QY 1945 GAACTACTTGGATAATGGAGCAGGTGCTGATGCTACTAAGGATGACGGTGTCTACTCAAGG 2004  
DB 2017 GAGCTCTCGCAATGGCGCAGGTGCTGATTTCTGCAAGAATGATGGCATCTACTCAAGG 2076  
QY 2005 TATTTCACAACTTATGACACGAATGGTATGATACAGTGTAAAGTGGCGGCTCTGGAGGA 2064  
DB 2077 TATTTTACAGATTACCATTGGAAATGGTAGATACAGTTTAAAGTGTCTTACCAGCAAGA 2136  
QY 2065 GTTAAACGACGACGAGGAGTATACCCAGCAGAGTGGGACACTGTACATACCTGCG 2124  
DB 2137 AAAAACACAGCTAGGC-----TAAGTCAACACAGAAATAAAGCTCTGTATGACCGCGC 2190  
QY 2125 TGGATTGAGATGATGAAATACAATGGAATCCACCAAGACCTGAAATTAATAAGGATGAT 2184  
DB 2191 TATGCTGAAATGGAAATTTATCTGAACCCATCCAAACCTGAAGTCACAGATGATGTG 2250  
QY 2185 GTTCAACACAGAGTGTGTTTTCAGCAGAAACATCTCTGGAGGCTCATTTTGTGCTTCT 2244  
DB 2251 GAAGGAGCTCAACACAGACGCTTTCAGCAGACTCACTCTGGAGGGTCTGTTACTGTATCA 2310  
QY 2245 GATGT---CCCAATGTCTCCCATACCTGATCTTCCACCTGGCCAAATCACCACCTG 2301  
DB 2311 GGAGTGCCTCTAATGGTAAATCAATTTCTCAGGTGTTCTCACCTGGTAAATTTGAGCCTC 2370  
QY 2302 AAGCGGAAATTCACGGGGCAGTCTCAATTAATCTGACTTGGACAGCTCTGGGGATGAT 2361  
DB 2371 GAGGCTAAGTTTCAAGGAG---ATCATATTCACTTTTCATGGAGTCCCTGGCAAGGTC 2427  
QY 2362 TATGACCATGAAACAGCTCAACAGTATATCAATTTGAAATGAAGTACAAATTTCTTGTATCT 2421  
DB 2428 CTCGATAAAGGAAGAGCTTGAGAGCTTACATTTAAGAATAAGTAAACATTTCTCTGACCTC 2487  
QY 2422 AGACAGATTTCAATGATCTTTCAGTGAATCTACTGCTCTCATCCCAAGGAAGCC 2481  
DB 2488 CAAGAAGATTTTGAATAAGCTGCTTTAATAATTAATCTTGTGCTGATACCTTAAGGAGCT 2547  
QY 2482 AACTCTGAGGAAGTCTTTTGTGTTAAACAGAAAAACATTAATCTTTTGAATAATGGCACAGAT 2541  
DB 2548 GGTTCAGTAGAAGTTTGAATTTAACCAGAACCTTCTAAATAGAGNATGGTAGACA 2607  
QY 2542 CTTTTCATTTGCTATTTAGGCTGTTGATAAGTGTGATCTGAAATTCAGAAATATCCAACTT 2601  
DB 2608 TTCTATATTGCAATTTCAAGCCATCCATGAGCCAATGTCACTCTCAGAGGTTTCAACACTT 2667  
QY 2602 GCAGGATGATCTTTGTTTATTTCTCTCCACAGACTCC 2636  
DB 2668 GCACAAGCAACTTAATTTTATTTCTCTCCACAGGAACC 2702



```

; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 2..685
US-09-224-110-8

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Query Match	26.5%	Score 790.8	DB 4	Length 878	
Best Local Similarity	97.9%	Pred. No. 1.8e-223			
Matches 820	Conservative	1	Mismatches 15	Indels 2	Gaps 2
1992	TGTCCTACTCAAGGTATTTTCAAACTTATGACACGAATGGTAGATACAGTGTGAAAAGTGGC	2051			
Db	1	TGTCCTACTCAAGGTATTTTCAAACTTATGACACGAATGGTAGATACAGTGTGAAAAGTGGC	60		
2052	GGCTCTGGGAGGAGTTAAACGACGCCAGACGGAGAGTGTATACCCACGACAGAGTGGAGCACT	2111			
Db	61	GGCTCTGGGAGGAGTTAAACGACGCCAGACGGAGAGTGTATACCCACGACAGAGTGGAGCACT	120		
2112	GTACATACCTGGCTGGATTGAGATGATGAATGAAATACATGAAATCCACCAAGACCTGGAAT	2171			
Db	121	GTACATACCTGGCTGGATTGAGATGATGAATGAAATACATGAAATCCACCAAGACCTGGAAT	180		
2172	TAAATAAGGATGATGTTTCAACAACAGCAAGTGTGTGTTTCAGCAGAAACATCTCTGGGAGGCTC	2231			
Db	181	TAAATAAGGATGATGTTTCAACAACAGCAAGTGTGTGTTTCAGCAGAAACATCTCTGGGAGGCTC	240		
2232	ATTGTGGCTTCTGATGTCTCCAAATGCTCCCATACCTGATCTCTTCCCACTGGCCAAAT	2291			
Db	241	ATTGTGGCTTCTGATGTCTCCAAATGCTCCCATACCTGATCTCTTCCCACTGGCCAAAT	300		
2292	CACCGACTCAAGCGCGGAAATTCACGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCC	2351			
Db	301	CACCGACTCAAGCGCGGAAATTCACGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCC	360		
2352	TGGGATGATTTAGCAACATGGACAGCTCAAGTATATCATTTGGAATAAGTACAAGTAT	2411			
Db	361	TGGGATGATTTAGCAACATGGACAGCTCAAGTATATCATTTGGAATAAGTACAAGTAT	420		
2412	TCCTTGATCTCAGAGACAAAGTTCATGAAATCTCTTCAAGTGAATACTACTCTCATCCTCC	2471			
Db	421	TCCTTGATCTCAGAGACAAAGTTCATGAAATCTCTTCAAGTGAATACTACTCTCATCCTCC	480		
2472	AAAGGAAGCGCAACTCTGAGGAAGTCTTTTGTGTTTAAACCGAATAAATTAATTTTGAATA	2531			
Db	481	AAAGGAAGCGCAACTCTGAGGAAGTCTTTTGTGTTTAAACCGAATAAATTAATTTTGAATA	540		
2532	TGGCAGAGATCTTTTCATTCCTGATTCAGGCTGTTGATTAAGTGCATCTGAAATCAGAAAT	2591			
Db	541	TGGCAGAGATCTTTTCATTCCTGATTCAGGCTGTTGATTAAGTGCATCTGAAATCAGAAAT	600		
2592	ATCCAACTTGCACGAGTATCTTTGTTTATTCCTCCACAGACTCCGCGCAGACACCTAG	2651			
Db	601	ATCCAACTTGCACGAGTATCTTTGTTTATTCCTCCACAGACTCCGCGCAGACACCTAG	660		
2652	TCTGATGAAACGCTGCTCCTTGT - CCTAATATTCATATCAACAGCACCATTCCTGGCA	2710			
Db	661	TCTGATGAAACGCTGCTCCTTGT - CCTAATATTCATATCAACAGCACCATTCCTGGCA	720		
2711	TTCCATATTTTAAAAATTTATGTGGAAGTGGATAGGAACTTGCAGCTGTCAATAGCCTAGG	2770			
Db	721	TTCCATATTTTAAAAATTTATGTGGAAGTGGATAGGAACTTGCAGCTGTCAATAGCCTAGG	780		
2771	GCTGAAATTTTGTGCAGATAAATAAATAATCATTCATCTCTTTTGTGATTATAAAA	2828			
Db	781	GCTGAAATTTTGTGCAGTGAAT - AAAATAATTAATTTTCAATCTTTTGTGATTATAAAA	837		

## RESULT 12

PCT-US95-07289-8

PC1-US93-07289-8  
: Sequence 8, Application PC/TUS9507289: sequence 8, Application:  
: GENERAL INFORMATION:  
: GENERAL INFORMATION:

```

1 / APPLICANT: Yu, Guo-Liang
2 /
3 / APPLICANT: Rosen, Craig
4 / TITLE OF INVENTION: Colon Specific Genes and Proteins
5 / NUMBER OF SEQUENCES: 24
6 / CORRESPONDENCE ADDRESS:
7 / ADDRESSER: Carella, Byrne, Bain, Gilfillan, Cecchi,
8 / ADDRESSEE: Stewart & Olstein
9 / STREET: 6 Becker Farm Road
10 / CITY: Roseland
11 / STATE: NJ
12 / COUNTRY: USA
13 / ZIP: 07068-1739
14 / COMPUTER READABLE FORM:
15 / MEDIUM TYPE: Floppy disk
16 / COMPUTER: IBM PC compatible
17 / OPERATING SYSTEM: PC-DOS/MS-DOS
18 / SOFTWARE: PatentIn Release #1.0, Version #1.30
19 / CURRENT APPLICATION DATA:
20 / APPLICATION NUMBER: PCT/US95/07289
21 / FILING DATE: 06-JUN-1995
22 / CLASSIFICATION:
23 / ATTORNEY/AGENT INFORMATION:
24 / NAME: Ferraro, Gregory D.
25 / REGISTRATION NUMBER: 36,134
26 / REFERENCE/DOCKET NUMBER: 325800-265
27 / TELECOMMUNICATION INFORMATION:
28 / TELEPHONE: 201-994-1700
29 / TELEFAX: 201-994-1744
30 / INFORMATION FOR SEQ ID NO: 8:
31 / SEQUENCE CHARACTERISTICS:
32 / LENGTH: 878 base pairs
33 / TYPE: nucleic acid
34 / STRANDEDNESS: single
35 / TOPOLOGY: linear
36 / MOLECULE TYPE: cDNA
37 / FEATURE:
38 / NAME/KEY: CDS
39 / LOCATION: 2..685
40 / PCT-US95-07289-8

```

Query Match	26.5%;	Score 790.8;	DB 5;	Length 878;
Best Local Similarity	97.9%;	Pred. No. 1.8e-223;		
Matches 820;	Conservative 1;	Mismatches 15;	Indels 2;	Gaps 2;
1992	TGCTACTCAAGGTATTTT	CACAACTTATGACACGAATG	TAGATACAGTGTGTAAGAGTGGC	2051
1	TGCTACTCAAGGTATTTT	CACAACTTATGACACGAATG	TAGATACAGTGTGTAAGAGTGGC	60
2052	GGCTCTGGGAGGAGTTAA	CGCAGCGAGCGAGAGTGTAT	ACCCAGCAGAGTGGAGCACT	2111
61	GGCTCTGGGAGGAGTTAA	CGCAGCGAGCGAGAGTGTAT	ACCCAGCAGAGTGGAGCACT	120
2112	GTACATACCTCGCTGGAT	TGCAATGCAATACAAATGGAAT	CCACCAAGACCTGAAAT	2171
121	GTACATACCTCGCTGGAT	TGCAATGCAATGCAATGGAAT	CCACCAAGACCTGAAAT	180
2172	TAATAAGGATGATGTTT	CAACAAGCAAGTGTGTTT	CAGCAAAACATCTCCGGAGGCTC	2231
181	TAATAAGGATGATGTTT	CAACAAGCAAGTGTGTTT	CAGCAAAACATCTCCGGAGGCTC	240
2232	ATTTTGGCTTCCTGATGT	CCCAATGCTCCCATACCTGATCT	CTTCCCACTGGCCAAAT	2291
241	ATTTTGGCTTCCTGATGT	CCCAATGCTCCCATACCTGATCT	CTTCCCACTGGCCAAAT	300
2292	CACCGACCTGAAGGGGGAAAT	TTCAGGGGGCAGTCTCATTAAT	CTGACTTGGACAGCTCC	2351
301	CACCGACCTGAAGGGGGAAAT	TTCAGGGGGCAGTCTCATTAAT	CTGACTTGGACAGCTCC	360
2352	TGGGGATGATTAATGACAT	TGGAAACAGCTCACAAAGTATAT	CATTCGAAATGAAGTACAAGTAT	2411
361	TGGGGATGATTAATGACAT	TGGAAACAGCTCACAAAGTATAT	CATTCGAAATGAAGTACAAGTAT	420
2412	TCTTGATCTCAGAGACAAGT	TTCAATGAAATCTCTTCAAGTGAAT	ACTACTGCTCTCATGCC	2471

Db 421 TCTTGATCTCAGAGCAAGTTCAATGAATCTCTCAAGTGAATACTACTGCTCTCATGCC 480  
Qy 2472 AAAGAAGCAACTCTGAGCAAGTCTTTTGGTTAAACAGAAACCAATTAATTTTGA 2531  
Db 481 AAAGAGCAACTCTGAGCAAGTCTTTTGGTTAAACAGAAACCAATTAATTTTGA 540  
Qy 2532 TGGCAGACATCTTTTCATTTGCTATTCAGGCTGTGATAGAGTCTGAAATCAGAA 2591  
Db 541 TGGCAGACATCTTTTCATTTGCTATTCAGGCTGTGATAGAGTCTGAAATCAGAA 600  
Qy 2592 ATCCAACTTGCAGAGTATCTTTGTTTATTTCTCCACAGACTCCGCCAGAGACCT 2651  
Db 601 ATCCAACTTGCAGAGTATCTTTGTTTATTTCTCCACAGACTCCGCCAGAGACCT 660  
Qy 2652 TCTGATGAAGCTCTGCTCCTTGT-CTTAATATTCATATCAACAGACCAATTCCTGG 2710  
Db 661 TCTGATGAAGCTCTGCTCCTTGTGCTTAATATTCATATCAACAGACCAATTCCTGG 720  
Qy 2711 TTCATTTTAAAAATATGCGAAGTGATAGGAGAACTGCAGCTGTCAATAGCCTAG 2770  
Db 721 TTCATTTTAAAAATATGCGAAGTGATAGGAGAACTGCAGCTGTCAATAGCCTAG 780  
Qy 2771 GCTGAATTTTGCAGATAAATAAATAATCAATTCATCTCTTTTTCATTTATA 2828  
Db 781 GGTGAATTTTGTGCGTGAAT-AAATAATATTTTCAACCTTTTGTGTTTATA 837

## RESULT 13

US-09-643-597-168  
; Sequence 168, Application US/09643597  
; Patent No. 6426072  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Pan, Liqun  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Hosken, Nancy  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Li, Samuel X.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Skeiky, Yasir A.W.  
; APPLICANT: Henderson, Robert A.  
; APPLICANT: McNeill, Patricia D.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER  
; FILE REFERENCE: 210121.455C11  
; CURRENT APPLICATION NUMBER: US/09/643,597  
; CURRENT FILING DATE: 2000-08-21  
; NUMBER OF SEQ ID NOS: 369  
; SOFTWARE: PastSeq for Windows Version 3.0  
; SEQ ID NO 168  
; LENGTH: 2784  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-643-597-168

Query Match 18.6%; Score 554.6; DB 4; Length 2784;  
Best Local Similarity 55.5%; Pred. No. 2.5e-153;  
Matches 1373; Conservative 0; Mismatches 1034; Indels 68; Gaps 13;  
Qy 98 TTCAGCTGAACCAACATGCTATGAGGCATTTGCTTCAATCGACCCCAATGTGCCAG 157  
Db 174 TACAGCTTCAAGCAATGGTATATGATTGCTCATTCATTAATCTCTAGGTACCTG 233  
Qy 158 AAGATGAACACTCAATCAACAAATAAGGACATGGTGACCCAGGCATCTCTGTATCTG 217  
Db 234 AGAATCAGAACCTCATCTCAACATTAAGGAAATGATACTGAAGCTTCATTTTACCTAT 293  
Qy 218 TTGAAGCTACAGGAAGCCATTTTATTTCAAAAATGTTGCCATTTGATTCCTGAAACAT 277  
Db 294 TTAATGCTACCAAGAGAGAGATTTTTCAGAAATATAAAGATTTTAATACCTGCCACAT 353

Qy 278 GGAAGCAAAAGCTGACTATGTGAGACCAAAACTTTGAGACCTTACAAAAATGCTGATGTC 337  
Db 354 CGAAAGCTAA---TAATAACAGCAAAATAAAACAAGAATCATATGAAAAGGCAAAATGTCA 410  
Qy 338 TGGTTGCTGAGTCTACTCTCCAGGTAAATGATGAACCCCTACACTGAGCAGATGGGCAACT 397  
Db 411 TAGTGACTGACTGGTATGGGGCACAATGGAGATGATCCATACACCCCTACAAATACAGAGG 470  
Qy 398 GTGGAGAGAAGGGTGAAGAGGATCCACCTCACCTCCTGATTTCTATGAGAAAAAAGTT-- 455  
Db 471 GTGGAAAGAGGGAAAAATACATTTTCATTCACACCTAAATTTCTTACTGAATGATAACTTA 530  
Qy 456 -AGCTGAATATGAGACCAAGGTAGGGCAATTTGTTCATGAGTGGGCTCATCTACAGTGG 514  
Db 531 CAGCTGGCTACGGATCAGAGCCGAGTGTGTTGTCATGAATGGGCCACCTCCGTTGGG 590  
Qy 515 GAGTATTTGACAGTACATATGATGAAATTTCTACTTTTCAATGAAAGTGA---GAATAC 571  
Db 591 GTGTGTCATGAGTATACCAATGACAAACCTTTTCTACATAAATGGGCAAAATCAATTA 650  
Qy 572 AAGCAGTAGAATGTTTTCAGCAGGTATTTCTGTTGATCAAAATGTAGTAAAGAGTGTCA 631  
Db 651 AAGTGACAAGGTGTTCTCTGACATCAGAGGCATTTTCTG-----GTGTGAAAAAG 701  
Qy 632 GCAGCTGTTTACACCAAAAGATGCATTCATTAAGTAAAGAGTCTCTATGAAAAAGGAT 691  
Db 702 GTCTTGGCCCCAAGAAAACTGTATTTAGTAAG-----CTTTTAAAGAAAGGAT 752  
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## RESULT 15

US-09-542-615A-168  
; Sequence 168, Application US/09542615A  
; Patent No. 6518256  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Fan, Liqun  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Hosken, Nancy A.  
; APPLICANT: Fanger, Gary R.  
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY



; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER

; FILE REFERENCE: 210121.455C8

; CURRENT APPLICATION NUMBER: US/09/542,615A

; CURRENT FILING DATE: 2000-04-14

; NUMBER OF SEQ ID NOS: 350

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 168

; LENGTH: 2784

; TYPE: DNA

; ORGANISM: Homo sapien

; US-09-542-615A-168

Query Match 18.6%; Score 554.6; DB 4; Length 2784;

Best Local Similarity 55.5%; Pred. No. 2.5e-153;

Matches 1373; Conservative 0; Mismatches 1034; Indels 68; Gaps 13;

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Job time : 280.198 secs

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QY	1321	CACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACA	1380
Db	444	HisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGluLeuSerLysMetThr	463
QY	1381	GGAGTTTTACAGACATATGCTTTCAGATCAAGTTCAAGAAATGGCCTCATTCATGCTTTT	1440
Db	464	GlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsnGlyLeuIleAspAlaPhe	483
QY	1441	GGGGCCCTTTCATCAGGAAATGGAGCTGTCTCTAGCGCTCCATCCAGTTGAGAGTAG	1500
Db	484	GlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSerIleGlnLeuGluSerLys	503
QY	1501	GGATTAACCTCCAGAACAGCCAGTGGATGAATGCGCAGTGAATGCTGCGACAGCCTGG	1560
Db	504	GlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrValIleValAspSerThrVal	523
QY	1561	GGAAAGACACTTTGTTTCTTATCACCTGGCAACGCGAGCCTCCCAATCTCTCTGG	1620
Db	524	GlyLysAspThrLeuPheLeuIleThrTrpThrThrGlnProGlnIleLeuLeuTrp	543
QY	1621	GATCCAGTGGACAGAACAGGTGGCTTTGTAGTGGACAAACACCAAAATGGCCTTAC	1680
Db	544	AspProSerGlyGlnLysGlnGlyPheValValAspLysAsnThrLysMetAlaTyr	563
QY	1681	CTCCAAATCCAGCAGTTCCTAAGTTCGCACTTCGAAATACAGTCTGCAACAGCTCA	1740
Db	564	LeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyrSerLeuGlnAlaSerSer	583
QY	1741	CAACCTTGACCCCTGACTGTGCTACGTCCTCGTCCCAATGCTTACCTGCTCCAATTACA	1800
Db	584	GlnThrLeuThrLeuThrValThrSerArgAlaSerAsnAlaThrLeuProIleThr	603
QY	1801	GTGACTTCCAAACGAAACAGGACACCAAGCAAAATCCCAAGCCCTCTGGTATTATGCA	1860
Db	604	ValThrSerLysThrAsnLysAspThrSerLysPheProSerProLeuValValTyrAla	623
QY	1861	AATATTCGCCAAGGCGCTCCCAATTCACGGCCAGTGTACAGCCCTGATTAATCA	1920
Db	624	AsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerValThrAlaLeuIleGluSer	643
QY	1921	GTGAATGAAAAACAGTTTACCTTGGAACTACTGGATAATGGAGAGGTGCTGATCTACT	1980
Db	644	ValAsnGlyLysThrValThrLeuLeuLeuAspAsnGlyAlaGlyAlaAspAlaThr	663
QY	1981	AAGGATGACGGTGTCTACTCAAGGTATTTCACACTTATGACCAAGATGGTAGATACAGT	2040
Db	664	LysAspAspGlyValTyrSerArgTyrPheThrThrTyrAspThrAsnGlyArgTyrSer	683
QY	2041	GTAAAGTCCGGCTCTCGGAGGAGTTAACCCAGCAGACCGAGAGTGTATCCCGAGAG	2100
Db	684	ValLysValAlaGlnLeuGlyGlyValAsnAlaAlaArgArgValIleProGlnGln	703
QY	2101	AGTGGAGCACTGTACATACCTGGCTGGATTGAGAAATGATGAAATACAAATGGAATCCACCA	2160

Db	704	SerGlyAlaLeuTyrIleProGlyTrpIleGluAsnAspGluIleGlnTrpAsnProPro	723
Qy	2161	AGACCTGAAATTAATAAGGATGATGTTCAACACAGCAAGTGTGTTTTCAGCAGAACATCC	2220
Db	724	ArgProGluIleAsnLysAspValGlnHisLysGlnValCysPheSerArgThrSer	743
Qy	2221	TGGGAGGCTCATTTGGGCTTCGTATGTCGCCAAATGCTCCCATACTGATCTCTCCCA	2280
Db	744	SerGlyGlySerPheValAlaSerAspValProAsnAlaProIleProAspLeuPhePro	763
Qy	2281	CCTGGCCAAATCAACCCAGCTGAAGCGGAAATTCAGGGGGAGTCTCTAATATCTGACT	2340
Db	764	ProGlyGlnIleThrAspLeuLysAlaGluIleHisGlySerLeuIleAsnLeuThr	783
Qy	2341	TGGACAGCTCCTGGGATGATATGACCATGGAACAGCTCACAAAGTATATCATTCGAATA	2400
Db	784	TrpThrAlaProGlyAspAspTyrAspHisGlyThrAlaHisLysTyrIleIleArgIle	803
Qy	2401	AGTACAGATATCTTGATCTCAGAGACAAAGTTCATCAATCTCTTCAAGTGAATACTACT	2460
Db	804	SerThrSerIleLeuAspLeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThr	823
Qy	2461	GCTCTCATCCCAAGCAACTCTGAGGAAGTCTTTTGTGTTTAAACCAGAAACATT	2520
Db	824	AlaLeuIleProLysGluAlaAsnSerGluGluValPheLeuPheLysProGluAsnIle	843
Qy	2521	ACTTTTGAATAATGGCAGATCTTTTCATTGCTATTGCTGATTAAGTTCGATCTG	2580
Db	844	ThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAlaValAspLysValAspLeu	863
Qy	2581	AAATCAGAATATCCAACATTGACAGATATCTTTGTTTATCTCCACAGACTCCGCCA	2640
Db	864	LysSerGluIleSerAsnIleAlaArgValSerLeuPheIleProGlnThrProPro	883
Qy	2641	GAGACCTAGCTGATGAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	2700
Db	884	GluThrProSerProAspGluThrSerAlaProCysProAsnIleHisIleAsnSerThr	903
Qy	2701	ATTCTGGCATTCACATTTTAAATAATGTTGAAGTGGATAGGAAGTGGATAGGAAGT	2760
Db	904	IleProGlyIleHisIleLeuLysIleMetTrpLysTrpIleGlyGluLeuGlnLeuSer	923
Qy	2761	ATAGCC 2766	
Db	924	IleAla 925	

RESULT 2

US-10-106-698-6248

; Sequence 6248, Application US/10106698

; Publication No. US20030109690A1

; GENERAL INFORMATION:

; APPLICANT: Ruben et al.

; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide

; FILE REFERENCE: PA005P1

; CURRENT APPLICATION NUMBER: US/10/106,698

; CURRENT FILING DATE: 2002-03-27

; PRIOR APPLICATION NUMBER: PCT/US00/26524

; PRIOR FILING DATE: 2000-09-28

; PRIOR APPLICATION NUMBER: US 60/157,137

; PRIOR FILING DATE: 1999-09-29

; PRIOR APPLICATION NUMBER: US 60/163,280

; PRIOR FILING DATE: 1999-11-03

; NUMBER OF SEQ ID NOS: 8564

; SOFTWARE: PatentIn Ver. 3.0

; SEQ ID NO 6248

; LENGTH: 925

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-106-698-6248

Alignment Scores:

Pred. No.: 0 Length: 925

Score:	4802.00	Matches:	922
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	89.26%	Indels:	0
DB:	14	Gaps:	0
US-09-049-696-20 (1-2983) x US-10-106-698-6248 (1-925)			
Qy	1	GAAATCACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTTTCATCTTGATT	60
Db	4	GluIleThrGlyArgCysThrAlaMetGlyProPheLysSerValPheIleLeuIle	23
Qy	61	CTTCACCTCTTAGAAGGGCCCTGAGTAATTCATCTCATTGAGTGTGACACAACTGCTAT	120
Db	24	LeuHisLeuLeuGluGlyAlaLeuSerAsnSerLeuIleGlnLeuAsnAsnGlyTyr	43
Qy	121	GAAGGATGTCCTTCAATCGACCCCAATGTCCAGAGATGAAACACATCATTTCAACAA	180
Db	44	GluGlyIleValValAlaIleAspProAsnValProGluAspGluThrLeuIleGlnGln	63
Qy	181	ATAAGGACATGGTGAACCCAGGCATCTCTGTATCTCTTTGAAGCTACAGGAAACCGATT	240
Db	64	IleLysAspMetValThrGlnAlaSerLeuTyrLeuPheGluAlaThrGlyLysArgPhe	83
Qy	241	TATTTCAAAATGTTGCCATTTTGGATTCCTGAAACATGGAAGACAAAGGCTGATGTG	300
Db	84	TyrPheLysAsnValAlaIleLeuIleProGluThrTrpLysThrLysAlaAspTyrVal	103
Qy	301	AGACCAAACTTGCAGACCTACAAAATGCTGATGTTCTGTTCTGAGTCTACTCTCTCCA	360
Db	104	ArgProLysLeuGluThrTyrLysAsnAlaAspValLeuValAlaGluSerThrProPro	123
Qy	361	GGTAATGATGAACCCCTACACTGACGAGATGGGCAACTGTGGAGAGAGGTTGAAGATC	420
Db	124	GlyAsnAspGluProTyrThrGluGlnMetGlyAsnCysGlyGluLysGlyGluArgIle	143
Qy	421	CACCTCACCTCTGATTTTCATTCAGGAAAGTGTAGTGTGATATGACACCAAGTAGG	480
Db	144	HisLeuThrProAspPheIleAlaGlyLysLeuAlaGluTyrGlyProGlnGlyArg	163
Qy	481	GCATTTGTCATGAGTGGGCTCATCTACATGGGAGTAGTTTTCACGAGTACATAATGAT	540
Db	164	AlaPheValHisGluTrpAlaHisLeuArgTrpGlyValPheAspGluTyrAsnAsnAsp	183
Qy	541	GAGAAATTTACTTATCCAAATGGAATATACAGCAGTAGTAAGTGTTCAGCAGGTATTACT	600
Db	184	GluLysPheTyrLeuSerAsnGlyArgIleGlnAlaValArgCysSerAlaGlyIleThr	203
Qy	601	GGTACAAATGTAGTAAAGAGTGTGAGGAGGAGCTGTTTACACCAAAAGATGCATTC	660
Db	204	GlyThrAsnValValLysLysCysGlnGlyGlySerCysTyrThrLysArgCysThrPhe	223
Qy	661	AATAAGTAAACAGGACTCTATGAAAGAGTGTGAGTGTGTTTCTCCCAATCCCGCCAGCG	720
Db	224	AsnLysValThrGlyLeuTyrGluLysGlyCysGluPheValLeuGlnSerArgGlnThr	243
Qy	721	GAGAAGCTTCTATATGTTTGACAAACATGTTGATTCTTATAGTCTGAATTCGTACAGAA	780
Db	244	GluLysAlaSerIleMetPheAlaGlnHisValAspSerIleValGluPheCysThrGlu	263
Qy	781	CAAAACCAACAAAGAAGCTCCAAACAAAGCAAAATCAAAAATGCAATCTCCGAAGCACA	840
Db	264	GlnAsnHisAsnLysGluAlaProAsnLysGlnAsnGlnLysCysAsnLeuAspSerThr	283
Qy	841	TGGGAAGTATCCGTGATTCGAGGACTTTAAGAAACCACTCTCTATGACACACAGCCCA	900
Db	284	TrpGluValIleArgAspSerGluAspPheLysLysThrThrProMetThrThrGlnPro	303
Qy	901	CCAAATCCCACTCTCTCATGTCAGATTGACAAAGAAATGTTGTGTTTAGTCTTGAC	960
Db	304	ProAsnProThrPheSerLeuLeuGlnIleGlyGlnArgIleValCysLeuValLeuAsp	323
Qy	961	AAATCTGGAAGCATGGCGACTGGTAACCGCCTCAATCGACTGAATCAAGCAGCCAGCTT	1020

324 LysSerGlySerMetAlaThrGlyAsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeu 343  
1021 TTCCTGCTCAGACAGTTGAGTGGGCTCTGGTTGGATGGTGCATTTGACAGTGGCT 1080  
344 PheLeuLeuGlnThrValGluLeuGlySerTrpValGlyMetValThrPheAspSerAla 363  
1081 GCCCATGTAAAGTGAATCATACAGATAAAGCAGTGGCAGTGACAGGAGACACACTCGCC 1140  
364 AlaHisValGlnSerGluLeuGlnGlnIleAsnSerGlySerAspArgAspThrLeuAla 383  
1141 AAAAGATTACCTGCAGCAGCTTCAGAGGAGCGTCCATCTGCAGCGGGCTTCGATCGGCA 1200  
384 LysArgLeuProAlaAlaAlaSerGlyGlyThrSerIleCysSerGlyLeuArgSerAla 403  
1201 TTTACTGCTATTAGNAGAAATATCAACTGATGGATCTGAAATGTGTGCTGCTGACGGAT 1260  
404 PheThrValIleArgIleLysIleThrProThrAspGlySerGluIleValLeuLeuThrAsp 423  
1261 GGGGAAGACAACTATAAGTGGTCTTTAAGAGGTCAAAAGAGTGGTGCATCATC 1320  
424 GlyGluAspAsnThrIleSerGlyCysPheAsnGluValLysGlnSerGlyAlaIleIle 443  
1321 CACACAGTCCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACA 1380  
444 HisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGluLeuSerLysMetThr 463  
1381 GGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACAAATGGCCCTTCATGCTTTT 1440  
464 GlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnGlyLeuIleAspAlaPhe 483  
1441 GGGGCCCTTTATCAGGAATGGAGTGTCTCTCAGCGCTCCATCCAGCTTCAGAGTAG 1500  
484 GlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSerIleGlnLeuGluSerLys 503  
1501 GGATTAACCTCCAGAACCCAGTGGATGCAATGGCACAGTGCATCTGCAGACAGCACCGTG 1560  
504 GlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrValIleValAspSerThrVal 523  
1561 GGAAGGACACTTTGTTTCTTATCCTCGACACAGCAGCCCTCCCAATCTCTCTGG 1620  
524 GlyLysAspThrLeuPheLeuIleThrTrpThrThrGlnProGlnIleLeuLeuTrp 543  
1621 GATCCAGTGGACAGAAAGTGGCTTTGAGTGGACAAAACACCAAAATGGCTAC 1680  
544 AspProSerGlyGlnLysGlnGlyPheValValAspLysAsnThrLysMetAlaIle 563  
1681 CTCCTCAATCCAGGCAATGCTAAGGTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 1740  
564 LeuGlnIleProGlyIleAlaLysValGlyThrTrpLysThrSerLeuGlnAlaSerSer 583  
1741 CAAACCTTGACCTGACTGCTACGCTCCGCTGGTCCAAATGCTACCTGCTCCAATTACA 1800  
584 GlnThrLeuThrLeuThrValThrSerArgAlaSerAsnAlaThrLeuProIleThr 603  
1801 GTGACTTCAAAACGAAAGACACCCAGCAATCCCGAGCCCTCTGGTAGTTATGCA 1860  
604 ValThrSerLysThrAsnLysAspThrSerLysPheProSerProLeuValValThrAla 623  
1861 AATATTGCGCAGGAGCCCTCCCAATCTCAGGGCCAGTGTGCAGCCCTGATTGAATCA 1920  
624 AsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerValThrAlaLeuIleGluSer 643  
1921 GTGAATGGAACACAGTTACTTGGAACTACTGATATATGAGAGGAGTCTGATGCTACT 1980  
644 ValAsnGlyLysThrValThrLeuGluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThr 663  
1981 AAGGATGCGGTCTTACTCAGGATTTTCACACTTATGACACGAATGGTAGATACAGT 2040  
664 LysAspAspGlyValThrSerArgThrPheThrThrThrAspThrAsnGlyArgThrSer 683  
2041 GTAAAGTCCGGCTCTGGAGAGTTAACGCGCAGACGAGAGTATACCCCGACGAG 2100

684 ValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArgValIleProGlnGln 703  
2101 AGTGAGCAGCTCATACACTGGCTGGATGAGAAATGATGAATCAATGGAATCCACCA 2160  
704 SerGlyAlaLeuLysIleProGlyTrpIleGluAsnAspGluIleGlnTrpAsnProPro 723  
2161 AGACCTGAAATTAATTAAGGATGATGTTCAACAACAGCAAGTGTGTTTCAGCAGAACATCC 2220  
724 ArgProGluIleAsnLysAspValGlnHisLysGlnValCysPheSerArgThrSer 743  
2221 TCGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGTCCCATACCTGATCTCTCCCA 2280  
744 SerGlyGlySerPheValAlaSerAspValProAsnAlaProIleProAspLeuPhePro 763  
2281 CCTGGCCAAATCACCGACTGAAGCGGAAATTCACGGGGCAGCTCATTAATCTGACT 2340  
764 ProGlyGlnIleThrAspLeuLysAlaGluIleHisGlySerLeuIleAsnLeuThr 783  
2341 TGGACAGCTCTCTGGGGATGATTATGACCATGGAAACAGCTCACAAGTATATATTCGAATA 2400  
784 TrpThrAlaProGlyAspAspTyrAspHisGlyThrAlaHisLysTyrIleIleArgIle 803  
2401 AGTACAAGTATTTTGTATCTCAGACACAAAGTTCAATGAATCTCTTCAAGTGAATACTACT 2460  
804 SerThrSerIleLeuAspLeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThr 823  
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864 LysSerGluIleSerAsnIleAlaArgValSerLeuPheIleProGlnThrProPro 883  
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884 GluThrProSerProAspGluThrSerAlaProCysProAsnIleHisIleAsnSerThr 903  
2701 ATTCCTGCAATTCACATTTTAAATAATATGTGGAAGTGGATAGAGAACTGCAGCTGTCA 2760  
904 IleProGlyIleHisIleLeuLysIleMetTrpLysTrpIleGlyGluLeuGlnLeuSer 923  
2761 ATAGCC 2766  
924 IleAla 925

RESULT 3  
US-09-823-356-8  
; Sequence 8, Application US/09823356  
; Patent No. US2001002509A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Kaser, Matthew R.  
; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
; FILE REFERENCE: PF-0489-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823,356  
; CURRENT FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/039,307  
; PRIOR FILING DATE: 1998 March 13  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PERL Program

; SEQ ID NO 8  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775  
US-09-823-356-8

## Alignment Scores:

Pred. No.: 0 Length: 914  
Score: 4759.00 Matches: 914  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 88.46% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-20 (1-2983) x US-09-823-356-8 (1-914)

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QY 85 AGTAATTCATCTTCAGCTGACACAACTGCTATGAGGCAATTCCTTGCATTCGAC 144  
DB 21 SerAsnSerLeuIleGlnLeuAsnAsnAsnGlyTyrGluGlyValValAlaIleAsp 40  
QY 145 CCAATGTGCCAGAGATCAAAACACTTCATTCAACAAATAAAGACATGTGTGCCAGGCA 204  
DB 41 ProAsnValProGluAspGluThrLeuIleGlnGlnIleLysAspMetValThrGlnAla 60  
QY 205 TCTCTGTATCTCTTTGAAGCTACAGAAAGCGATTTTATTTCAAAATGTTGCCATTTTG 264  
DB 61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80  
QY 265 ATTCTGAAACATGAGCAAAAGGCTGACTATGTGAGACCAAACTTGAGACCTTACAAA 324  
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DB 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120  
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QY 565 AGAATACAGCAGTAAAGTGTTCAGCAGGTATTTACTGTGTAATAATGTAGTAAGAAGTGT 624  
DB 181 ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys 200  
QY 625 CAGGAGGAGCAGTGTTCACCAAAAGATGCAATTCATTAAGTAAACAGGACTCTATGAA 684  
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DB 221 LysGlyCysGluPheValLeuGlnSerArgGlnThrGluAlaSerIleMetPheAla 240  
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DB 241 GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro 260  
QY 805 AACAGCAAAATCAAAATGCAATCTCCGAGCACATGGGAAGTGATCCGTGATTCGTGAG 864

DB 261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu 280  
QY 865 GACTTTAAGAAAAACCACTCTATGACAAACACAGCCACCAAAATCCCACTTCTCATTTGCTG 924  
DB 281 AspPheLysLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu 300  
QY 925 CAGATTGGCAAAAGAAATTTGTGTTTAGTCTTGTGACAAATCTGGAAGCATGGCAGCTGTT 984  
DB 301 GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320  
QY 985 AACCCCTCAATCGACTGAATCAAGCAGGCCAGCTTTCTCTGTCGACAGCAGTTGAGCTG 1044  
DB 321 AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu 340  
QY 1045 GGGTCTCTGGTGGGATGCTGACATTTGACAGTGTCTGCCCATGTACAAAGTGAACATCA 1104  
DB 341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle 360  
QY 1105 CAGATAACAGTGGCAGTGACAGGGACACACTCGCCAAAAGATTACTCGCAGCAGCTTCA 1164  
DB 361 GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSer 380  
QY 1165 GGAGGAGCTCCATCTGACAGCGGCTTCGATCGGCATTTACTGTGATTAGGAAGAATAT 1224  
DB 381 GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr 400  
QY 1225 CCAACTGATGGATCTGAAATTTGCTGCTGACGGATGGGAAAGACAACTATAAGTGGG 1284  
DB 401 ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAsnThrIleSerGly 420  
QY 1285 TCCTTTAAAGAGGTCAAAAGTGTGCTCATTCACACAGCTCCTTTGGGGCCCTCT 1344  
DB 421 CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440  
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DB 441 AlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer 460  
QY 1405 GATCAAGTTTCAGAACAAATGGCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGAAAATGGA 1464  
DB 461 AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly 480  
QY 1465 GCTGTCTCTCAGCGCTCCATCCAGCTTGAGATGAGGATTAACCTCCAGAACACGCCAG 1524  
DB 481 AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln 500  
QY 1525 TCGATCAATGGCACAGTGTGTCGACACCGCTGGGAAGACACTTGTGTTCTTATC 1584  
DB 501 TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle 520  
QY 1585 ACCTGGACAAACGAGCCTCCCAAAATCCTTCTCTGGGATCCAGTGGACAGAACGCAAGGT 1644  
DB 521 ThrTrpThrThrGlnProProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGly 540  
QY 1645 GCCTTTGTAGTCGACAAAACACCAAAATGGCTTACCTCCAAATCCAGGCATTTGCTAAG 1704  
DB 541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560  
QY 1705 GTTGACACTTGGAAATACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTACAG 1764  
DB 561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr 580  
QY 1765 TCCGTGGCTCAATGCTACCTCCCAATTTACAGTGACTTCCAAAACGACCAAGGAC 1824  
DB 581 SerArgAlaSerAsnAlaThrLeuProProIleThrValThrSerLysThrAsnLysAsp 600  
QY 1825 ACCAGCAAAATTCCTCCAGCCCTCTGGTAGTTTATGCAAAATATTTCGCAAGGAGCTCCCA 1884  
DB 601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
QY 1885 ATTCTCAGGGCCAGTGTTCACAGCCCTGATTGAATCAGTGAATGGAAGAAACAGTTACCTTG 1944  
DB 621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640

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QY 1945 GAACTACTGGATAATGGACGAGTCTGATGCTTACTAAGGATCAGCGTCTTACTCAAGG 2004
DB 641 GlnLeuLeuAspAsnGlnAlaGlyAlaAspAlaThrLysAspGlyValTyrSerArg 660
QY 2005 TATTTCAACAATTATGACACGAATGGTAGATACAGTGTAAAGTGGGCTCTGGAGGA 2064
DB 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680
QY 2065 GTTAAGCAGCAGGAGGAGTGTATACCCAGCAGAGTGGAGCAGTGTACATACCTGGC 2124
DB 681 ValAsnAlaAlaArgArgValLysProGlnGlnSerGlyAlaLeuTyrLysProGly 700
QY 2125 TGCATTGAGATGATGAAATACAAATCAATGGAATCCACCAAGACCTGAAATTAATGAAGATGAT 2184
DB 701 TrpLleGluAsnAspGluLleGlnTrpAsnProProArgProGluLleAsnLysAspAsp 720
QY 2185 GTTCAACAACAAGTGTGTTTCAGCAGAAATCCTCGGAGGCTCAATTCGTGCTCT 2244
DB 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740
QY 2245 GATGTCCTCCAAATGCTCCCATCTGATCTCTTCCACCTGGCCAAATCACCACCTGAAG 2304
DB 741 AspValProAsnAlaProLleProAspLeuPheProGlyGlnLleThrAspLeuLys 760
QY 2305 GCGGAAATTCAGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCCTGGGATGATTAT 2364
DB 761 AlaGluLleHisGlySerLeuLleAsnLeuThrTrpThrAlaProGlyAspAspTyr 780
QY 2365 GACCATGGAACAGCTCACAAAGTATATCATTTCAATTAAGTACAAATTCCTGATCTCAGA 2424
DB 781 AspHisGlyThrAlaHisLysTyrLleLleArgLleSerThrSerLleLeuAspLeuArg 800
QY 2425 GACAAGTTCATGAATCTCTCAAGTGAATATCTACTGCTCTCATCCCAAGGAGCCAAAC 2484
DB 801 AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuLleProLysGluAlaAsn 820
QY 2485 TCTGAGGAGTCTTTTGTGTTAAACAGAAACATTTACTTTTGAATAATGGCACAGATCT 2544
DB 821 SerGluGluValPheLeuPheLysProGluAsnLleThrPheGluAsnGlyThrAspLeu 840
QY 2545 TTCATTGCTATTCAAGCTGTTGATAGGTGCGATCTGAAATCAGAAATATCCCAACATTGCA 2604
DB 841 PheLleAlaLleGlnAlaValAspLysValAspLeuLysSerGluLleSerAsnLleAla 860
QY 2605 CAGATATCTTTGTTTATCTCTCACAGACTCCGCCAGACACCTAGTCTCTGATGAACG 2664
DB 861 ArgValSerLeuPheLleProGlnThrProGluThrProSerProAspGluThr 880
QY 2665 TCTGCTCTTGTCTTAATTCATATCAACAGCACCATTCCTGGCATTCACATTTTAAAA 2724
DB 881 SerAlaProCysProAsnLleHisLleAsnSerThrLleProGlyLleHisLleLeuLys 900
QY 2725 ATTATGTGAAGTGGATAGGAGAACTGACAGCTGTCAATAGCC 2766
DB 901 IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerLleAla 914
RESULT 4
US-09-981-353-192
; Sequence 192, Application US/09981353
; Patent No. US20020160382A1
; OTHER INFORMATION:
; APPLICANT: Lasek, Amy W.
; APPLICANT: Jones, David A.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US
; CURRENT APPLICATION NUMBER: US/09/981,353
; CURRENT FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO 192
; LENGTH: 914
; TYPE: PRT
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; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CD1
US-09-981-353-192
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Alignment Scores:
Pred. No.: 0 Length: 914
Score: 4759.00 Matches: 914
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 88.46% Indels: 0
DB: 9 Gaps: 0
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US-09-049-696-20 (1-2983) x US-09-981-353-192 (1-914)

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QY 25 ATGGGGCCATTAAAGATTCTGTGTTTCATCTTGATCTTCCACTTCTAGAGGGGCCCTG 84
DB 1 MetGlyProPheLysSerSerValPheLleLeuLleLeuHisLeuGluGlyAlaLeu 20
QY 85 AGTAATTCACTCATTTCAGCTGAACCAACATGCTATGAAGGCATTGTCTGTCATTCGAC 144
DB 21 SerAsnSerLeuLleGlnLeuAsnAsnGlyTyrGluGlyLleValValAlaLleAsp 40
QY 145 CCCAATGTGCCAGAGATCAAACTCATTCAACAAATAAAGACATGCTGACCCAGGCA 204
DB 41 ProAsnValProGluAspGluThrLeuLleGlnLleLysAspMetValThrGlnAla 60
QY 205 TCTCTGTATCTGTTGAAGCTACAGAAAGGATTTTATTTCAAAAAATGTTGCCATTG 264
DB 61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaLleLeu 80
QY 265 ATTCCTGAAACATGGAAGACAAAGGCTGACTATGTGAGCAACAAACTTGAGACCTACAA 324
DB 81 IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys 100
QY 325 AATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGATCAACCTTACACTG 384
DB 101 AsnAlaAspValLeuValAlaGluSerThrProGlyAsnAspGluProTyrThrGlu 120
QY 385 CAGATGGGCAACTGTGGAGAGAGAGGTGAAGGATCCACCTCCTCCTGATTCATTGCA 444
DB 121 GlnMetGlyAsnCysGlyGlyLysGlyGluArgLleHisLeuThrProAspPheLleAla 140
QY 445 GGAATAAGATTAGCTGAATATGACCAAGCTAGGCACTTTGTCCATGAGTGGCTCAT 504
DB 141 GlyLysLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis 160
QY 505 CTACGATGGGAGTATTTGACGAGTACAAATATGATGAGAAATTTCTTATCCCAATGGA 564
DB 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180
QY 565 AGAATACAGCAGTAAGATGTTTACGAGGTATTTACTGGTACAAATGTAGTAAGAAGTGT 624
DB 181 ArgLleGlnAlaValArgCysSerAlaGlyLleThrGlyThrAsnValValLysLysCys 200
QY 625 CAGGAGGACGCTGTTTACCAAAAGATGCATTCATTAAGATCAACGAGCTCTATGAA 684
DB 201 GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu 220
QY 685 AAAGGATGTGATTTGTTTCTTCAATCCCGCCAGACGAGAGAGCTTCTATATGTTGCA 744
DB 221 LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerLleMetPheAla 240
QY 745 CAACATGTTGATTCATATGTTGAATCTGTACAGAAACAAACCAACAAAGAGCTCCA 804
DB 241 GlnHisValAspSerLleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro 260
QY 805 AACAGCAAAATCAAAAATGCAATCTCGAAGACATCGGAAGTGCATCGTCTGATCTGAG 864
DB 261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValLleArgAspSerGlu 280
QY 865 GACTTTAAGAAAAACCACTCTCTATGATGACACAGCCCAACAAATCCCACTTCTTCTATTGCTG 924
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; LENGTH: 914			
; TYPE: BRT			
; ORGANISM: Homo sapiens			
US-09-833-245-2054			
Alignment Scores:			
Pred. No.:	0	Length:	914
Score:	4759.00	Matches:	914
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	88.46%	Indels:	0
DB:	11	Gaps:	0
US-09-049-696-20 (1-2983) x US-09-833-245-2054 (1-914)			
QY	25	ATGGGGCCATTAAAGAGTCTGTGTTTCATCTTCACTTCTACCTTCTAGAGGGGCCCTG	84
DB	1	MetGlyProPheLysSerValPheIleLeuIleLeuHisLeuLeuGluGlyAlaLeu	20
QY	85	AGTAATTCACTCATTCAGCTGAACAACAATGCTATGAAGGCATTGCTTGCATTCGAC	144
DB	21	SerAsnSerLeuIleGlnLeuAsnAsnAsnGlyTyrGluGlyIleValValAlaIleAsp	40
QY	145	CCCAATGTCCGAGAGATGAACACTCATTCACCAATAAAGGACATGCTGCCCGACCA	204
DB	41	ProAsnValProGluAspGluThrLeuIleGlnGlnIleLysAspMetValThrGlnAla	60
QY	205	TCTCTGTATCTGTTGAAGCTACAGAAAGAGCGATTATTTCACAAATGTTGCCATTG	264
DB	61	SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu	80
QY	265	ATTCTTGAACATGGAAGCAAGGCTGACTATGTGAGACCAAACTTCAGACCTACAAA	324
DB	81	IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys	100
QY	325	AATGCTGATGTTCTGCTGCTGAGTCTACTCTCCAGAGTAATGATGAACCCCTACACTG	384
DB	101	AsnAlaAspValLeuValAlaGluSerThrProGlyAsnAspGluProTyrThrGlu	120
QY	385	CAGATGGGCACTGTGGAGAGAGGGTGAAGATCCACTCACTCTGATTTCAATGCA	444
DB	121	GlnMetGlyAsnGlyGluLysGlyLysGluArgIleHisLeuThrProAspPheIleAla	140
QY	445	GGAAAAAGCTAGCTGAATATGACCAAGAGTGGGCATTGTCATCAGTGGGCTCAT	504
DB	141	GlyLysLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis	160
QY	505	CTACGATGGGGAGTATTTGACGAGTACAATAATGATGAGAAATTCATTATCCCAATG	564
DB	161	LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly	180
QY	565	AGAAATCAAGCAGTAAGATGTCAGCAGGTATTTACTGGTACAAATGTAGTAAGAAGTGT	624
DB	181	ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys	200
QY	625	CAGGAGGAGGCTGTTTACACCAAAAGATGCACATTCAATAAAGTACAGGACTTATGAA	684
DB	201	GlnGlyLysCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu	220
QY	685	AAAGGATGTGAGTTGTTCTCCAATCCCGCCAGCAGGAGGCTTCTATAATGTTGCA	744
DB	221	LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla	240
QY	745	CAACATGTTGATTTAGTTGATTTCTGTACGAACAAACCAACCAAGAGCTCCA	804
DB	241	GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro	260
QY	805	AACAACAAAATCAAAATCAATCTCCGAAGCACATGGGAAGTATCGTGTATCTGAG	864
DB	261	AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu	280
QY	865	GACTTTTAAAGAAACCACTCTATGACACACAGCCACCAAAATCCCACTTCTCATTTG	924
DB			

281	AspPheLysLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu	300
925	CAGATTGGACAAAGAAATTTGTGTTTACTCTTGAACAAATCTGGAAGCATGCGACTGT	984
301	GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly	320
985	AACCGCTCAATCGACTGAATCAAGCAGCGCCAGCTTTTCTCTGCTCAGACAGTTCAG	1044
321	AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuGlnThrValGluLeu	340
1045	GGTCTCTGGTGGATGCTGACATTTGACAGTGTGCTGCCCATGTACAAAGTGAACATA	1104
341	GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle	360
1105	CAGATAAACAGTGGCAGTGACAGGACACACTCGCCAAAAGATTACCTGCAGCAGCTCA	1164
361	GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSer	380
1165	GGAGGACGCTCCATCTGACGCGGGCTTCGATCGGCATTACTGTGATTAGGAAGAAAT	1224
381	GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr	400
1225	CCAACTGATGATCTGAAATTTGCTGCTGACGAGTGGGGAAGACAACTATAAGTGG	1284
401	ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly	420
1285	TGCTTTAACGAGGTCAAAACAAAGTGTGCTCCATCATCCACACAGTCTGTTGGGCCCT	1344
421	CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer	440
1345	GCAGCTCAAGAACTAGAGGAGCTGTCCAAATAGCAGAGGAGTTTACAGACATATCTTCA	1404
441	AlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer	460
1405	GATCAAGTTCAGAACAAATGGCTCATTTGATGCTTTTGGGGCCCTTTCATCAGAAATGA	1464
461	AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly	480
1465	GCTGTCTCTCAGCGCTCCATCCAGCTTCAGAGTAAAGGATTAAACCTCCAGAACAGCCAG	1524
481	AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln	500
1525	TGGATGAATGGCACAGTGTGTCGACACGACCGTGGGAAGGACACTTTGTTTCTTATPC	1584
501	TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle	520
1585	ACCTGGACAGCAGCCTCCCAAAATCTCTCTGGATCCAGTCCGAGGACAGAACAGT	1644
521	ThrTrpThrThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGly	540
1645	GSCTTTGTAGTGGACAAAACACCAAAATGGCTTACCTCCAAATCCAGGCATTGCTAAG	1704
541	GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys	560
1705	GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAACCTTCACCTGACTGTACG	1764
561	ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr	580
1765	TCCGTGGCTCAATGCTACCTGCTCCAAATTCAGTGAATTCACAAAACAGCAAGGAC	1824
581	SerArgAlaSerAsnAlaThrLeuProIleThrValThrSerLysThrAsnLysAsp	600
1825	ACCACAAATCCCGAGCCCTCTGTGTATGTAATATATTCGCAAGAGCCCTCCCA	1884
601	ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro	620
1885	ATTCTCAGGGCCAGTGTCCACAGCCCTGATGTAATCAGTGAATGGAAAAACAGTTAC	1944
621	IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu	640
1945	GAACTACTGATTAATGGAGCAGGCTGCTGATGCTACTACTAGGATGAGGCTGTCTCA	2004
641	GluLeuLeuAspAsnGlyValAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg	660

Qy	2005	TATTTCAACTTATGACAGAAATGGTAGATACAGTGTAAAGTGGGGCTCTCGGAGGA	2064
Db	661	TyrPheThrThrTyAspThrAsnGlyArgTyrSerVallysValaAgaLeuGlyGly	680
Qy	2065	GTTAAACCGCCACGACGGAGTGATACCCACGACAGAGTGAGACACTGTACATACCTGGC	2124
Db	681	ValAsnAlaAlaArgArgValileProGlnGlnSerGlyAlaLeuTyrlleProGly	700
Qy	2125	TGGATTGAGAAATGAAATACAATCGAATCCACCAAGACTGGAATTAATAAGGATGAT	2184
Db	701	TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp	720
Qy	2185	GTTCAACACAAAGCAAGTGTGTTTCAGCAGAACATCTCCGAGGCTCATTTGGCTTCT	2244
Db	721	ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer	740
Qy	2245	GATGTCCCAAAATGCTCCCATCTGATCTCTTCCACAGCTGGCCMAATCACCAGCTGAAG	2304
Db	741	AspValProAsnAlaProIleProAspLeuPheProGlyGlnIleThrAspLeuLys	760
Qy	2305	CGCGAAATTCACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCTGGGGATGATTAT	2364
Db	761	AlaGluIleHisGlyGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr	780
Qy	2365	GACCATGGAAACAGCTCAACAAGTATATCATTCGAATAAGTACAAGTATCTTGATCTCAGA	2424
Db	781	AspHisGlyThrAlaHisLysTyrlleIleArgIleSerThrSerIleLeuAspLeuArg	800
Qy	2425	GACAAGTTCAATGAATCTCTTCAAGTGAATACTACTCTCTCATCCCAAGGAGCCAAC	2484
Db	801	AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn	820
Qy	2485	TCTGAGGAAGTCTTTTGTGTTAAACACAGAAAAACATTACTTTGAAATGGCACAGATCTT	2544
Db	821	SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu	840
Qy	2545	TTCAATCTCTATTCAGGTGTGTAAAGTCGACTCGAAATCAGAAATATCCACATTTGCA	2604
Db	841	PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla	860
Qy	2605	CGAGTATCTTTGTTTATTTCTCCACAGACTCCGCGACAGACACCTAGTCTGTGAACG	2664
Db	861	ArgValSerLeuPheIleProProGlnThrProProGluThrProSerProAspGluThr	880
Qy	2665	TCTGCTCTTTGTCCTAATATTATATCAACAGCACCATTCCTGGCATTCACATTTAAAA	2724
Db	881	SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys	900
Qy	2725	ATTATGGGAAGTGGATAGGAGAACTCGAGCTGTCATAGCC	2766
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## RESULT 6

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US-10-235-994-26
; Sequence 26, Application US/10235994
; Publication No. US200301002A1
; GENERAL INFORMATION:
; APPLICANT: Bartha, Gabor
; APPLICANT: Walker, Michael
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS
; FILE REFERENCE: ICYTP012
; CURRENT APPLICATION NUMBER: US/10/235,994
; CURRENT FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: US/10/003,608
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,081
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 914
; TYPE: PRT

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QY 985 AACCGCTCAATCGACTGAATCAGCAGCGCAGCTTTCTCTCTGCGAGACATTGAGCTG 1044  
Db 321 AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu 340  
QY 1045 GGGTCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 1104  
Db 341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeu 360  
QY 1105 CAGATAAAACAGTGGCAGTGCACAGGACACACTCGCAAAAGATTACCTGCGACGCTTCA 1164  
Db 361 GlnileAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSer 380  
QY 1165 GGAGGACGTCGATCTGCGAGCGGCTTCGATCGGCAATTTACTGTGATTAGGAAGAAATAT 1224  
Db 381 GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysIleTyr 400  
QY 1225 CCAACTGTGATGATCTGAAATGCTGCTGCTGCGGATGGGGAAGACAACTATAAGTGGG 1284  
Db 401 ProThrAspGlySerGluLeuValLeuLeuThrAspGlyGluAspAsnThrIleSerGly 420  
QY 1285 TGCCTTTAAGAGGTCAAAACAAAGTGTGCTCATCCTCACACAGTCTGCTTTGGGGCCCTCT 1344  
Db 421 CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440  
QY 1345 GCAGCTCAAGAACTAGAGAGCTGCTCCAAATATGACAGGAGTTTACAGACATATGCTTCA 1404  
Db 441 AlaAlaGlnLeuGluLeuGluSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer 460  
QY 1405 GATCAAGTTTCAGACAAATCGCTCTGATGCTTTGGGGCCCTTTCATCAGGAATGGA 1464  
Db 461 AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly 480  
QY 1465 GCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAG 1524  
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QY 1525 TCGATGAATGGCACAGTGTGCTGGACACGCGTGGGAAAGACACTTTGTTCTTATC 1584  
Db 501 TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeu 520  
QY 1585 ACCTGGACACCGCCTCCCAATCTCTCTGATCCAGTCCAGTCCAGTCCAGTCCAGTCCAGT 1644  
Db 521 ThrTrpThrGlnProGlnLeuLeuLeuTrpAspProSerGlyGlnLysGlnGly 540  
QY 1645 GCGTTGTAGTGGACAAAACACCAAAATGGCTACTCTCCAAATCCAGGCAATGCTAAG 1704  
Db 541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560  
QY 1705 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGTCTCAAACTTGAACCTGACCTGCTGACG 1764  
Db 561 ValGlyThrTrpLysIleThrLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr 580  
QY 1765 TCCGTGCTCCAAATGCTCCCTGCTCCAAATGCTCCAAATGCTCCAAATGCTCCAAATGCTCC 1824  
Db 581 SerArgAlaSerAsnAlaThrLeuProIleThrValThrSerLysThrAsnLysAsp 600  
QY 1825 ACCAGCAAAATCCCAAGCCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1884  
Db 601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
QY 1885 ATTCTCAGGCGCAGTGTCTACGCTGATGATGATGATGATGATGATGATGATGATGATGATG 1944  
Db 621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640  
QY 1945 GAACTACTGATATGAGCAGGTGCTGATGCTACTTAAAGATGACGGTCTCTACTCAAGG 2004  
Db 641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 660  
QY 2005 TATTTTCACTTATGACAGCAATGCTAGTACAGTGTAAAGTGTAAAGTGTGGGAGGA 2064

Db 661 TyrPheThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThr 680  
QY 2065 GTTAACGCGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC 2124  
Db 681 ValAsnAlaAlaArgArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700  
QY 2125 TGGATTGGAATGATGAATAACAATGAATCCACCAAGACCTGAAATTAATAAGGATGAT 2184  
Db 701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720  
QY 2185 GTTCAACAACAGCAAGTGTGTTTTCAGCAGACATCTCTCGGAGGCTCATTTGTGCGCTCT 2244  
Db 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740  
QY 2245 GATGTCCTCAATGCTCCCATACCTGATCTCTCCACCTGGCCCAATCACCACCTGAG 2304  
Db 741 AspValProAsnAlaProIleProAspLeuPheProGlyGlnIleThrAspLeuLys 760  
QY 2305 GCGGAAATTCACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGATGATTAT 2364  
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QY 2365 GACCATGGAACAGCTCAACAGTATATCATTCGAATAAGTACAGTATCTTCTGATCTCAGA 2424  
Db 781 AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg 800  
QY 2425 GACAGTTCATGATGATCTCTCAAGTGAATACTACTGCTCTCATCCCAAGAGGCCAAC 2484  
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Db 821 SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu 840  
QY 2545 TTCATTGCTATTTCAGCTGTTGATAAGTTCGATCTGAAATCAGAAATATCCAACTTGA 2604  
Db 841 PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla 860  
QY 2605 CGAGTATCTTTGTTTATTTCTCCACAGACTCCGCGACAGACACCTAGTCTCTGATCAAGC 2664  
Db 861 ArgValSerLeuPheIleProProGlnThrProProGluThrProSerProAspGluThr 880  
QY 2665 TCTGCTCTCTGCTCTTAATATTCATATCAACAGCACCATTCCTGCGATTCACATTTTAAAA 2724  
Db 881 SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys 900  
QY 2725 ATTATGTGGAAGTGGATAGGAACTGCGAGCTGTCAATAGCC 2766  
Db 901 IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914

## RESULT 7

US-10-060-255-42  
; Sequence 42, Application US/10060255  
; Publication No. US20030113840A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 25 Human secreted proteins  
; FILE REFERENCE: PZ042PI  
; CURRENT APPLICATION NUMBER: US/10/060,255  
; CURRENT FILING DATE: 2002-02-01  
; PRIOR APPLICATION NUMBER: 09/781,417  
; PRIOR FILING DATE: 2001-02-13  
; PRIOR APPLICATION NUMBER: PCT/US00/22325  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: 60/149,182  
; PRIOR FILING DATE: 1999-08-17  
; NUMBER OF SEQ ID NOS: 86  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 42  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens

US-10-060-255-42

## Alignment Scores:

Pred. No.: 0 Length: 914  
Score: 4759.00 Matches: 914  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 88.46% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-20 (1-2983) x US-10-060-255-42 (1-914)

QY	25	ATCGGGCCATTTAAGAGTCTGTTCATCTTCATCTTCACCTTCTAGAGGGGCGCTG	84
DB	1	MetGlyProPheLysSerValPheIleLeuIleLeuHisLeuLeuGluGlyAlaLeu	20
QY	85	AGTAATTTCACTCATTCAGCTGAACAACATGGCTATGAGGCAATTCGTTGCAATCGAC	144
DB	21	SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp	40
QY	145	CCCAATGTGCGAGAATGAAACACTCATTCACAAATAAAGACATGTTGACCCAGGCA	204
DB	41	ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla	60
QY	205	TCCTGTATCTGTTGAAGCTACAGAAAGCGATTTTTCAAAATGTTGCCATTTG	264
DB	61	SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu	80
QY	265	ATTCTCTGAACATGGAAGCAAGGCTGACTATGTGAGACCAAACTTGAGCTCAAA	324
DB	81	IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys	100
QY	325	AATGCTCATGTTCTGGTGTGAGTCTACTCTCCAGGTAATGATCAACCCCTACCTAG	384
DB	101	AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu	120
QY	385	CAGATGGCAACTGTGGAGAGAAGGTGAAGATCCACTCTCTCATTTTCATGCA	444
DB	121	GlnMetGlyAsnGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla	140
QY	445	GGAAAAGTTAGCTCAATATGACCAAGGTAGGCAATTCCTCATGAGTGGGCTCAT	504
DB	141	GlyLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluThrAlaHis	160
QY	505	CTACGATGGGAGTATTTCACGAGTACAATAATGATGAGAAATTCATTTATCCAATGGA	564
DB	161	LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly	180
QY	565	AGAATACAAAGCACTAGATGTTTCAGCAGGATTTACTGGTACAAATGCTAGTAAAGATGT	624
DB	181	ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysCys	200
QY	625	CAGGGAGGCGCTGTACACCAAAAGATGCACATTCATTAAGTACAGGACTCTATGAA	684
DB	201	GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu	220
QY	685	AAAGGATGTGAGTTGTCTCCAAATCCCGCAGACGAGAGGCTTCTATAAGTTTGGCA	744
DB	221	LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla	240
QY	745	CAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAAACAAACCAAGAGGCTCCA	804
DB	241	GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro	260
QY	805	AACAAGCAAAATCAAAATGCAATCTCCGAGACATGGGAAGTATCGGTGATTTCTGAG	864
DB	261	AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu	280
QY	865	GACTTTTAAGAAACCACTCTATGACAAACAGCCCAATCCCACTTCTCATTTGCTG	924
DB	281	AspPheLysLysThrThrProMetThrThrGlnProAsnProThrPheSerLeuLeu	300
QY	925	CAGATTGGCAAAAGAAATTTGTGTTAGTCTTTGACAAATCTGGAAGCATGGGACTGGT	984

DB	301	GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly	320
QY	985	AACCGCTCAATCGACTGAATCAAGCAGCGCCAGCTTTTCTGTCTGAGCAGTGTGAGCTG	1044
DB	321	AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu	340
QY	1045	GGGTCTCTGGTGGGATGTGTGACATTTGACAGTGTGCCCATGTACAAAGTGAACATCA	1104
DB	341	GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle	360
QY	1105	CSGATAAACAGTGGCAGTGCACGGGACACATCGCCCAAGATTAATCTGCAGCAGTTCA	1164
DB	361	GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSer	380
QY	1165	GGAGGACCTCTCATCTGCAGCGGCTTCGATCGGCATTTACTGTGATTAGGAAGAAATAT	1224
DB	381	GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysTyr	400
QY	1225	CCAACTGATGATCTGAAATTTGTCTGCTGACGGATGGGGAAGACAACACTATAAGTGG	1284
DB	401	ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly	420
QY	1285	TGCTTTAAGAGGTCAAAACAAAGTGTGCCATCATCCACACAGTCCGTTGGGCGCTCT	1344
DB	421	CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer	440
QY	1345	GCAGCTCAAGAACTAGCAGGAGCTGCCAAATGCACAGGAGTTTACAGACATATGCTTCA	1404
DB	441	AlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer	460
QY	1405	GATCAAGTTTCAGAACAAATGGCCTCATTGATGCTTTTGGGCGCTTTCATCAGGAAATGGA	1464
DB	461	AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly	480
QY	1465	GCTGCTCTCAGGCTCCATCCAGCTTGAGATGAGGATTAACCTCCAGAACAGCCAG	1524
DB	481	AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln	500
QY	1525	TGATCAATGGCAGCAGTGTGTCGACAGCAGCCGTCGGGAAGGACACTTTGTTTCTTATC	1584
DB	501	TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle	520
QY	1585	ACCTGGCAACGCGAGCTCCCAAAATCTTCTCTGGGATCCCAAGTCGACAGCAAGAGT	1644
DB	521	ThrTrpThrThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGly	540
QY	1645	GGCTTTGTAGTGACAAAAACCAAAATGGCGCTACTCTCAAAATCCAGGCAATGCTAAG	1704
DB	541	GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys	560
QY	1705	GTGGCAGCTTGGAAATACAGTCTGCAAGCAAGCTCACAACTTGCACCTGCTGTCACG	1764
DB	561	ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr	580
QY	1765	TCCGTGCTGCAATGCTACTCCCTGCTCCAAATTCAGTGAATTCACAAACGACAAAGGAC	1824
DB	581	SerArgAlaSerAsnAlaThrLeuProPheThrValThrSerLysThrAsnLysAsp	600
QY	1825	ACAGCAAAATTCACAGCGCTCTGGTAGTTTATGCAAAATTCGCAAGAGGAGCTCCCA	1884
DB	601	ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro	620
QY	1885	ATTCTCAGGCGCCAGTGTACAGCCCTGATTGATTCAGTGAATGGAAGAAACAGTTACTTG	1944
DB	621	IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu	640
QY	1945	GAACTACTGATAATGAGCAGCTGCTGATGCTACTAAGGATGACCGGTGTCTACTCAAGG	2004
DB	641	GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg	660
QY	2005	TATTTTCAACTTATGACACGAATGGTAGATACAGTGTAAAAAGTCGGGCTCTGGAGGA	2064

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Db 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680
QY 2065 GTTAACGACGACGAGAGTGTATACCCAGCAGAGTGGAGCAGTGTACATACCTGCG 2124
Db 681 ValAsnAlaAlaArgArgValIleProGlnSerGlyAlaLeuTyrIleProGly 700
QY 2125 TGGATTGAGATGATGAATACAAATGGAATCCACCAAGACCTGAAATTAATGAAGATGAT 2184
Db 701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720
QY 2185 GTTCAACAACAGAGTGTGTTTCAGCAGACATCTCCGGAGGCTCATTTGTGGCTTCT 2244
Db 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740
QY 2245 GATGTCCCAAAATGCTCCCACTACCTGATCTCTCCACCTGGCCAAATCACCACCTGAG 2304
Db 741 AspValProAsnAlaProIleProAspLeuPheProGlyGlnIleThrAspLeuLys 760
QY 2305 GCGGAAATTCAGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCTCGGGATGATTAT 2364
Db 761 AlaGluIleHisGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr 780
QY 2365 GACCATGGAAACAGCTCACAGTATATCATTCGAATAGTACAGTATCTTGTATCTCAGA 2424
Db 781 AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg 800
QY 2425 GACAGTTCATGAATCTCTCAAGTGAATACCTACTCTCTCATCCCAAGGAGCCACAC 2484
Db 801 AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820
QY 2485 TCTGAGAGAGTCTTTTGTGTTAAACAGAAACATTAATCTCTCTCAAGTGGACAGATCTT 2544
Db 821 SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu 840
QY 2545 TTCATTGTCTATTACAGCTGTTGATAGTTCGATCTGAAATCAGAAATATCCAACTTGA 2604
Db 841 PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla 860
QY 2605 CGAGTATCTTTGTTTATCTCCACAGACTCCGACAGACACTAGTCTCTCATGAAAG 2664
Db 861 ArgValSerLeuPheIleProGlnThrProProGluThrProSerProAspGluThr 880
QY 2665 TCTGCTCTCTGCTTAATATTCATATCAACAGCACCATTCTCTGGCATTACATTTTAA 2724
Db 881 SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys 900
QY 2725 ATTATGTGAAGTGGATAGAGAACTGCGAGCTGTCAATAGCC 2766
Db 901 IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914
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## RESULT 8

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US-09-922-217-1066
; Sequence 1066, Application US/09922217
; Patent No. US20020076414A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yuxiu
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; CURRENT FILING DATE: 2001-08-03
; NUMBER OF SEQ ID NOS: 1124
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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1066
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-922-217-1066

Alignment Scores:
Pred. No.: 0 Length: 914
Score: 4756.00 Matches: 913
Percent Similarity: 100.00% Conservative: 1
Best Local Similarity: 99.89% Mismatches: 0
Query Match: 88.40% Indels: 0
DB: 9 Gaps: 0
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US-09-049-696-20 (1-2983) x US-09-922-217-1066 (1-914)

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QY 85 AGTAATTCACCTCATTACCTGAAACAAATGGCTATGAGGCATTGTGTCATCGAC 144
Db 21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40
QY 145 CCCAATGTGCCAGAGATGAAACACTCATTCAACAAATAAAGGACATGGTGACCCAGGCA 204
Db 41 ProAsnValProGluLysGluThrLeuIleGlnGlnIleLysAspMetValThrGlnAla 60
QY 205 TCTCTGTATCTGTTGAAAGCTACAGGAAAGCGATTTTATTTCAAAAATGTTGCCATTTG 264
Db 61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80
QY 265 ATTCCTGAAACATGGAACAAAGCTGACTATGTGACACCAAACTTGAGACCTTACAAA 324
Db 81 IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys 100
QY 325 AATGCTGATGTTCTGGTTGCTGAGTCTACTCTCCAGGTAAATGATGAACCCCTACACTG 384
Db 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120
QY 385 CAGATGGGCAACTGTGGAGAGAAGGTGAAAGGATCCACCTCCTGATTTTCATTGCA 444
Db 121 GlnMetGlyAsnCysGlyGluLysGlyIleGluArgIleHisLeuThrProAspPheIleAla 140
QY 445 CGAAAAAGTTAGCTGAATATGGACCACCAAGTAGGGCATTGTCCATGAGTGGCTCAT 504
Db 141 GlyLysLysLeuAlaGluTyrGlyProGlnGlyLysAlaPheValHisGluTrpAlaHis 160
QY 505 CTACGATGGGAGTATTTGACGAGTACAAATATGATGAGAAATCTTACTTATCCCAATGGA 564
Db 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180
QY 565 AGAATACAGCAGTAAAGTGTTCAGCAGGTATTTACTGGTACAAATGTAGTAAGAAGTGT 624
Db 181 ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys 200
QY 625 CAGGGAGCAGCTGTTTACACCAAAAGATGCACATTCAATAAAGTAACAGGACTCTATGAA 684
Db 201 GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu 220
QY 685 AAAGGATGTGATTTGTTCTCAATCCCGCAGAGGAGGCTTCTATATATTTTGTGA 744
Db 221 LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla 240
QY 745 CAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAACAAAAACCAACAAGAGCTCA 804
Db 241 GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro 260
QY 805 AACAGGCAAAATCAAAAATGCAATCTCCGAGCAGCATGGGAGTGTATCGGTGATCTGAG 864
Db 261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu 280
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865 QY GACTTTAAGAAACCACTCTCTATGACACACACAGCCACCAATCCGACCTTCTCATTTGCTG 924  
281 Db AppHeLeYsThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu 300  
925 QY CAGATTGGCAAGAAGATTGTTGTTAGTCTTGACAAATCTGGAAGCATGGCAGCTGT 984  
301 Db GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320  
985 QY AACCCGCTCAATCGACTGAATCAAGCAGGCCAGCTTTTCTGCTGCAGACAGTTGAGCTG 1044  
321 Db AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu 340  
1045 QY GGGTCTCGGTGGGATGTGACATTTGACAGTGTGCCCATGTACAAAGTGAACACTATA 1104  
341 Db GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle 360  
1105 QY CAGATAAACAGTGGCAGTCACAGGACACACTCGCCAAAGATTACTCGCAGCAGCTTCA 1164  
361 Db GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSer 380  
1165 QY GGAGGACGCTCCATCTGCAGCGGGCTTCGATCGGCATTTTACTGTGATTAGGAAGAAATAT 1224  
381 Db GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr 400  
1225 QY CCAACTGATGGATCTCAAAATTGTGCTGTCGACGGATGGGAGACAACTATAAGTGG 1284  
401 Db ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluLeuAsnThrIleSerGly 420  
1285 QY TGCCTTTAACAGAGTCAAAAGTGTGGCATCATCCACAGCTCGCTTTGGGGCCCTCT 1344  
421 Db CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440  
1345 QY GCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGAGGTTTACAGACATATGCTTCA 1404  
441 Db AlaAlaGlnGluLeuGluGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer 460  
1405 QY GATCAAGTTTCAGAACTAGTCCATGATGCTTTTGGGGCCCTTTTCATCAGGAATGGA 1464  
461 Db AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly 480  
1465 QY GCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTAAACCTCCAGACACCCAG 1524  
481 Db AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln 500  
1525 QY TGGATGAATGGCAGCTGATCGTGGACAGCACCGTGGGAAGGACACTTTGTTTCTTATC 1584  
501 Db TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle 520  
1585 QY ACCTGACAAACGAGCTCCCAAAATCCTTCTCTGGGATCCCAAGTGGACAGAAAGGAT 1644  
521 Db ThrTrpThrThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGly 540  
1645 QY GCGTTTGTAGTGACAAAACCAAAATCGCTTACTCCAAATCCAGGCAATGCTTAAAG 1704  
541 Db GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560  
1705 QY GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCAAAAACCTTGACCTGACTGTCAAG 1764  
561 Db ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr 580  
1765 QY TCCGTGCTCCCAATGCTACCTGCTCCAAATTCAGTACGACTTCCAAAACGACAAAGGAC 1824  
581 Db SerArgAlaSerAsnAlaThrLeuProIleThrValThrSerLysThrAsnLysAsp 600  
1825 QY ACCAGCAATTCCTCCAGCTCTGCTGAGTTTATGCAAAATTCGCAAGGAGCTCCCA 1884  
601 Db ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
1885 QY ATTCTCAGGCGCAGTGTCAAGCCCTGATTGAATCAGTGAATGGAATAACAGTTTACTTGG 1944  
621 Db IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640  
1945 QY GAACTACTGGATAATGGACGGTGTGCTGCTACTAAGGATGACGGTGTCTACTCAAGG 2004

641 Db GluLeuLeuAsnAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 660  
2005 QY TATTTTCACAACTTATGACACGAATGTAGATACAGTGAATAAGTGGGGCTCTGGGAGGA 2064  
661 Db TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680  
2065 QY GTTAACGACGACGAGCGAGAGTGATACCCCGACAGAGTGGAGCACTGTACATACCTGGC 2124  
681 Db ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700  
2125 QY TCGATTGCAAGTGCATAATACAAATGGAATCCACCAAGACCTGAAATTAATAGGATGAT 2184  
701 Db TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720  
2185 QY GTTCAACACCAAGCAAGTGTGTTTTCAGCAAGAACATCTCCGGAGGCTCATTTTGGCTTCT 2244  
721 Db ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740  
2245 QY GATGTCCTCCAAATGCTCCCATACCTGATCTCTCCACCTGGCCAAATCACCGACCTGAAG 2304  
741 Db AspValProAsnAlaProIleProAspLeuPheProGlyGlnIleThrAspLeuLys 760  
2305 QY GCGGAAATTCACGGGGCAGTCTCTAATCTGACTTGGACAGCTCCTCGGGATGATTAT 2364  
761 Db AlaGluIleHisGlyGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr 780  
2365 QY GACCATGGAAACAGCTCACAAAGTATATCATTCGAATAAGTACAAAGTATCTTGTATCTCAGA 2424  
781 Db AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg 800  
2425 QY GACAAAGTTCAAATCAATCTCTTCAAGTGAATACCTGCTCTCATCCAAAGGAAGCAAC 2484  
801 Db AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820  
2485 QY TCTGAGAACTCTTTTGTGTTTAAACAGAAACATTTACTTTTGAAATGCAACATTCGA 2544  
821 Db SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu 840  
2545 QY TTCATTGTCTATTTCAGGCTGTGATAGTTCGATCTGAAATCAGAAATATCAACATTCGA 2604  
841 Db PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluLeuSerAsnIleAla 860  
2605 QY CGAGTATCTTTGTTTATTCTCCACAGACTCCGCGCAGACACACTAGTCTCTGATGAAACG 2664  
861 Db ArgValSerLeuPheIleProGlnThrProGluThrProSerProAspGluThr 880  
2665 QY TCTGCTCTCTGCTTAATATTCATATCAACAGCACCATTCTCTGGCATTTCATTTTAAAA 2724  
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2725 QY ATTATGTGGAAGTGGATAGGAACTGCAGCTGTCAATAGCC 2766  
901 Db IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914

RESULT 9  
US-09-833-263-1066  
; Sequence 1066, Application US/09833263  
; Patent No. US20020110547A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Stolk, John A.  
; APPLICANT: Meagher, Madeleine J.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.471C12  
; CURRENT APPLICATION NUMBER: US/09/833,263  
; CURRENT FILING DATE: 2001-04-10  
; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 1066  
; LENGTH: 914









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QY 805 AACAGCAAAATCAAAAATCAATCTCGAAGCACATGGAGTGCATCGTATTCTGAG 864  
Db 261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu 280  
QY 865 GACTTTAAAGAAACACCTCTATATGACACACAGCCACCAAAATCCCACTTCTCATTTGCTG 924  
Db 281 AspPheLysLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu 300  
QY 925 CAGATTGGACAAGAATGTGTGTAGTCTCTTGACAAATCTTGAAGCATGGCGCTGCT 984  
Db 301 GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320  
QY 985 RACCCGCTCAATCGACTGAATCAACAGCCAGCTTTCTCTGCTGCAGACAGTTCAGCTG 1044  
Db 321 AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuGlnThrValGluLeu 340  
QY 1045 GGGTCTCTGGGTTGGGATGGTGCATTTGACAGTGTGCCCATGTACAAAGTGAACCTCAT 1104  
Db 341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle 360  
QY 1105 CAGATAACAGTGGCAGTGCAGAGCACACATCGGCCAAAAGATTACCTGCAGCAGCTTCA 1164  
Db 361 GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSer 380  
QY 1165 GGAGGAGCTCCATCTGCAGCGGCTTCGATCGGCTTACTGCTGATTAGGAGAAATAT 1224  
Db 381 GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr 400  
QY 1225 CCAACTGATGGATCTGAAATGTGCTGCTGCGGATGGGAGACAACTATAAGTGGG 1284  
Db 401 ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly 420  
QY 1285 TGCCTTTAAGAGGTCAAAAGTGGTGCATATCCACAGTGCCTTTGGGGCCCTCT 1344  
Db 421 CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440  
QY 1345 GCAGTCTAAGACTAGAGAGGTGTCCTCAAAATGACAGGAGGTTTACAGACATATCTTCA 1404  
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QY 1405 GATCAAGTTCAGAACAAATGCTCATTTGATGCTTTTGGGGCCCTTTCATCAGAAATGA 1464  
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QY 1465 GCTGTCTCTCAGCGTCCATCCAGTTCAGAGTAAGGATTAAACCTCCAGAACAGCCAG 1524  
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QY 1585 ACCTGGACACAGCGCTCCCAAAATCCTCTCTGGGATCCAGTGGACAGAACAGGCT 1644  
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QY 1645 GCGTTTGTAGTGGACAAAACACCAAAATGGCTTACCTCCAAATCCAGGCAATTCCTAAG 1704  
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QY 1705 GTTGGCACTTGAATACAGTCTGCAAGCAGCTCACAAACCTTCACCTGACTCTCAGC 1764  
Db 561 ValGlyThrTrpLysThrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr 580  
QY 1765 TCCCGTGGCTCAATGTCTACCTGCTCCAAATACAGTGCATTTCCAAAACGAAACAGGAC 1824  
Db 581 SerArgAlaSerAsnAlaThrLeuProProlIleThrValThrSerLysThrAsnLysAsp 600  
QY 1825 ACCAGCAATTCACGAGCCCTCTGTAGTTTATGAAATATTCGCAAGAGGCTCCCA 1884  
Db 601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620

QY 1885 ATTCTCAGGGCAGTGTCCACAGCCCTGATTGAATCAGTGAATGGAACACAGTTCACCTTG 1944  
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QY 1945 GAACCTACTGGATAATGGAGCAGGTGCTGATCTACTAAGGATGACGGTGTCTACTCAAGG 2004  
Db 641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 660  
QY 2005 TATTTCAACATTTATGACACGAATGGTAGATACAGTGTAAAAGTGGGGCTCTGGAGGA 2064  
Db 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680  
QY 2065 GTTAAACGAGCAGCAGCAGAGTGTATCCAGCAGAGTGGAGCACTGTACATACCTGGC 2124  
Db 681 ValAsnAlaAlaArgArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700  
QY 2125 TGGATTGAATGATGAAATACAATCGAATCCACAAGACCTGAAATTAATAAGATGAT 2184  
Db 701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720  
QY 2185 GTTCAACACCAAGTGTGTTTTCAGCAGAACATCCTCGGAGGCTCATTTGTGCTTCT 2244  
Db 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740  
QY 2245 GATGTCCCAAAATGCTCCCATACCTGATCTTCCACCTGGCCAAATCACCGACCTGAAG 2304  
Db 741 AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuLys 760  
QY 2305 CGGAAATTCACGGGGCAGTCTCATTAATCTGACTTCGACAGCTCCTGGGAGATGATTAT 2364  
Db 761 AlaGluIleHisGlyGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr 780  
QY 2365 GACCATGGAACAGCTCACAGTATATCATTCGAATAAGTACAGTATTCCTTGATCTCAGA 2424  
Db 781 AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg 800  
QY 2425 GACAAGTTCAATGAATCTCTTCAAGTGAATACTCTGCTCATCCCAAGGAAGCCAC 2484  
Db 801 AspLysPheAsnGlnSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820  
QY 2485 TCTCAGGAAGTCTTTTGTTTTAAACACAGAAACATTAATTTTGAATAATGGCAGATCTT 2544  
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QY 2605 CGAGTATCTTTTGTATTCTCCACAGACTCCGCCAGAGACACCTAGTCTCATCAACG 2664  
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; Sequence 6, Application US/10270595  
; Publication No. US20030078409A1  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; CURRENT FILING DATE: 2002-10-16

; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-270-595-6

Alignment Scores:  
Pred. No.: 0 Length: 914  
Score: 4754.00 Matches: 913  
Percent Similarity: 99.89% Conservative: 0  
Best Local Similarity: 99.89% Mismatches: 1  
Query Match: 88.36% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-20 (1-2983) x US-10-270-595-6 (1-914)

QY	25	ATGGGGCCATTAAAGATTCTGTTTCATCTTGATTCTTACCTTCTAGAGGGCCCTG	84
Db	1	MetGlyProPheLysSerValPheIleLeuIleLeuHisLeuLeuGluGlyAlaLeu	20
QY	85	AGTAATTCATTCAGCTGAACACCAATGCTATGAGGCAATGCTTGCATTCGAC	144
Db	21	SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValAlaIleAsp	40
QY	145	CCCAATGTCGAGAGATGAACACTCATTCACAAATAAGGACATGTTGACCGGCA	204
Db	41	ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla	60
QY	205	TCTCTGTATCTCTTGAAGCTACAGAAAGCATTTTATTTCAAAATGTTGCCATT	264
Db	61	SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu	80
QY	265	ATTCCTGAAACATGGAAGCAAGGCTGACTATGTGACACCAAACTTGAGACCTACAA	324
Db	81	IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys	100
QY	325	AATGCTGATGTTCTGTTGCTGCTACTCTCCAGGTAATGATGAACCCCTACACTGAG	384
Db	101	AsnAlaAspValLeuValAlaGluSerThrProGlyAsnAspGluProTyrThrGlu	120
QY	385	CAGATGGGCACTGGGAGAGAGGTGAAGATCCACCTCCTCATCTGATTTTCATGCA	444
Db	121	GlnMetGlyAsnGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGly	140
QY	445	CGAAAAAGCTAGCTGAATATGACACCAAGGTAGGGCAATTTGCTCCATCAGTGGGCTCAT	504
Db	141	GlyLysLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis	160
QY	505	CTACGATGGGAGTATTTGACGAGTACAAATATGATGAGAAATTTCTATTATCCATGGA	564

Db	161	LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly	180
QY	565	AGAATACAGCAGTAAAGATTGTTACAGCAGTATTACTGGTACAAATCTAGTAAGAAGTGT	624
Db	181	ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys	200
QY	625	CAGGAGGAGCTGTTACACCAAAAGATGCACATTCAATAAAGTAAACAGGACTTATGAA	684
Db	201	GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLys**ThrGlyLeuTyrGlu	220
QY	685	AAAGGATGTGAGTTTCTCCAAATCCCGCCAGACGAGAGGCTTCTATAATGTTTGA	744
Db	221	LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla	240
QY	745	CAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAACAAACCAACAAAGAGTCCA	804
Db	241	GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro	260
QY	805	AACAAGCAAAATCAAAAATGCAATCTCGAAGCACATGGGAAGTGTCCGTGATTTGAG	864
Db	261	AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu	280
QY	865	GACTTTAAGAAACCACTCTATGACACACAGCCACCAAAATCCACCTTCTCATTTGCG	924
Db	281	AspPheLysLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu	300
QY	925	CAGATTGGACAAAGAAATGTTGTTTGTAGTCTTGTGACAAATCTCGAAGCATGCGACTGGT	984
Db	301	GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly	320
QY	985	AACCCCTCAATCGACTGAATCAAGCAGCCAGCTTTTCTCTGCTGCGAGCAGTTGAGCTG	1044
Db	321	AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu	340
QY	1045	GGGTCTGCTGGTGGATGTTGACATTTGACAGTGTGCTGCCCATGTACAAAGTGAACCTATA	1104
Db	341	GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle	360
QY	1105	CAGATAAACAAGTCGAGTGACAGGACACACTCGCCAAAGATTAACCTGCAGCAGCTTCA	1164
Db	361	GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSer	380
QY	1165	GGAGGAGCTCATCTGAGCGGGCTTCGATCGGCATTTACTGTGATTAGGAAGAAATAT	1224
Db	381	GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr	400
QY	1225	CCAATCTGATGATCTGAAATGCTGCTGCGGATGGGGAAGACAACTATAAGTGGG	1284
Db	401	ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly	420
QY	1285	TGCTTTAACGAGCTCAAAACAAAGTGTGCTCATCCACACAGTCCCTTTGGGGCCCTCT	1344
Db	421	CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer	440
QY	1345	GCAGTCAAGAACTAGAGAGCTGTCCAAATATGACAGAGGTTTACAGACATATGTTCA	1404
Db	441	AlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer	460
QY	1405	GATCAAGTTCAACAATGGCTTCATTGATGCTTTTGGGGCCCTTTTCATCAGGAATGGA	1464
Db	461	AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly	480
QY	1465	GCTGTCTCTCAGCGCTCCATCCAGCTTTCAGAGTAAAGGATTAACCTCCAGAACACCGCAG	1524
Db	481	AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln	500
QY	1525	TGGATGAATGGCAGTGTGATCTGTGACACACCGTGGGGAAGACACTTTGTTCTTATC	1584
Db	501	TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle	520
QY	1585	ACCTGGACACGACGCTCCCAATCTTCTCTGGATCCCGAGTCCGAGCAGGACGAGCT	1644
Db	521	ThrTrpThrThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGly	540

1645 GCCTTTGTAGTCGACAAAAACACCAAAATGGCTTACCTCCAAATCCAGGCAATTCCTAAG 1704  
Db GlyPheValValAspLysAsnThrLysMetAlaThrLeuGlnLeuProGlyIleAlaLys 560

1705 GTTGCACTTGAATACAGCTGCAAGCAAGCTCACAAACCTTGACCTGACTCTCAG 1764  
Db ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr 580

1765 TCCGTGGCTCAATGCTTACCTCGCTCCAAATACAGTGAAGCTTCCAAAACGCAAGAC 1824  
Db SerArgAlaSerAsnAlaThrLeuProProlleThrValThrSerLysThrAsnLysAsp 600

1825 ACCAGCAATCCCGAGCCCTCGTGTAGTTATGCAATATTCGCAAGGACCTCCCA 1884  
Db ThrSerLysPheProSerProLeuValValThrAlaAsnIleArgGlnGlyAlaSerPro 620

1885 ATCTCAGGGCCAGTGTCCACAGCCCTGATGTAATCAGTGAATGGAAAAACATTACCTTG 1944  
Db IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640

1945 GAATCTGGAATATGAGCAGGCTGCTGATCTACTAAGGATGAGGCTGCTTACTCAAG 2004  
Db GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 660

2005 TATTTTCAACAATTATGACACGAATGATAGATACAGTGTAAAGTGGGCTCTGGGAGA 2064  
Db TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680

2065 GTTAACGCGACGACGAGAGTGATACCCAGCAGAGTGAGCAGCTGTACATACCTGGC 2124  
Db ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700

2125 TGGATTGAGATGAATACAAATGGAATCCACCAAGCTGAAATTAATGAATGAT 2184  
Db TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720

2185 GTTCAACACAGCAAGTGTGTTTACGCAACATCTCGGAGGCTCATTTGTGCTCT 2244  
Db ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740

2245 GATGTCCCAAAATGCTCCCACTGATCTCTTCCACCTGGCCAAATCACCACCTGAAG 2304  
Db AspValProAsnAlaProIleProAspLeuPheProGlyGlnIleThrAspLeuLys 760

2305 CGGAAATTCAGGGGAGTCTCATTAATCTGACTTGGACAGCTCTCGGGATGATAT 2364  
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2365 GACCATGGAACAGCTCACAGTATATCATTCGAATAGTACAAATGATTCCTGATCTCAGA 2424  
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2425 GACAAAGTTCAATSAATCTCTCAAGTGAATACTGCTCTCATCCCAAGAACCCCAAC 2484  
Db AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820

2485 TCTGAGGAGTCTTTTGTGTTAAACACAGAAACATTACTTTGAAATGGCACAGATCTT 2544  
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2545 TTTCATTGCTATTACGCTGTGATAGGTGCGATCTGAAATCAGAATATCCAACTTCCA 2604  
Db PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla 860

2605 CGAGTATCTTTTGTATTCCTCCACAGACTCCGCCAGACACCTAGTCTCTGATGAAACG 2664  
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2665 TCTGCTCTTGTCCTAATATTCATATCAACAGCACCATCTCTGGCATTCACATTTTAAA 2724  
Db SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys 900

2725 ATTATGTGAAGTGTGATAGGAGAACTGCAGCTGTCAATAGCC 2766  
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; Sequence 28, Application US/10055412B  
; Publication No. US20030059861A1  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055.412B  
; PRIOR APPLICATION NUMBER: 2001-10-29  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065.922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 28  
; LENGTH: 914  
; TYPE: PRN  
; ORGANISM: Homo sapiens  
US-10-055-412B-28

Alignment Scores:  
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Best Local Similarity: 99.78% Mismatches: 0  
Query Match: 88.35% Indels: 0  
DB: 14 Gaps: 0

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QY 85 AGTAATTCATCTCATTACAGCTGAAACAAATGGCTATGAGGCAATGCTGTGCAATCGAC 144  
Db 21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40

QY 145 CCCAATGTCGACAGAGTGAACACTCATTCACAAATAAAGGACATGCTGACCCAGGCA 204  
Db 41 ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla 60

QY 205 TCTCTGATCTGTTTGAAGCTACAGGAAAGCGATTATTTTCAAAAATGTTGCCATTG 264  
Db 61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80

QY 265 ATTCTGAAACATGGAAGCAAAAGCTGACTATGTGAGACCAAAACTTGAGACCTTACAA 324  
Db 81 IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys 100

QY 325 AATGCTGATGTTCTGGTGTGAGTCTACTCTCCAGCTAATGATGAACCTTACACTGAG 384  
Db 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120

QY 385 CAGATGGGCAACTGTGGAGAGAGGGTGAAGAGGATCCACCTCACCTCTGATTTCATTGCA 444  
Db 121 GlnMetGlyAsnCysGlyGlyLysGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGly 140

QY 445 CGAAAAAGTTAGCTGAATATGGACCAACAGTAGGCAATTTGTCCATGAGTGGGCTCAT 504  
Db 141 GlyLysLysLeuAlaGluTyrGlyProGlnGlyLysAlaPheValHisGluThrAlaHis 160

QY 505 CTACATGGGGAGTATTTGACGAGTGACAAATATGATGATGAAATTTCTTATCCCAATGGA 564  
Db 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180

QY 565 AGAATACAAAGCAGTAAGATGTTTCAGCAGGTATTTACTGTCACAAATGTAGTAAAGAGTGT 624

181 ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys 200  
625 CAGGAGGAGCTGTTTACACCAAAAGATGCACATTCAATAAAGTAGTAACGAGACTCTATGAA 684  
201 GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuYrGlu 220  
685 AAAGGATGTAGTGTGTTCTTCAATCCCGCCAGACGAGAGGCTTCTATAATGTTGCA 744  
221 LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla 240  
745 CAACATGTTGATCTTATAGTTCGAATCTCGAAGCAGATGGGAAGTGCATCTGTAG 864  
241 GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro 260  
805 AACCAAGCAAAATCAAAATGCAATCTCGAAGCAGATGGGAAGTGCATCTGTAG 864  
261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu 280  
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925 CAGATTGGACAAAGAAATGTTGTTAGTTCCTTGACAAATCTGGAAGCATGGCGACTGT 984  
301 GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320  
985 AACCCGCTCAATCGACTGAATCAACGAGCCAGCTTTCCTGCTCGACACACTGAGCTG 1044  
321 AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuGlnThrValGluLeu 340  
1045 GCGTCTCGGTTGGATGTGATTCATTTGACAGCTGCTGCCCATGTCAAAAGTCAATCAT 1104  
341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle 360  
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361 GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaAsp 380  
1165 GGAGGAGCTCCATCTCGACGGGCTTCGATCGGATTTACGTGATTAGGAAGAAATAT 1224  
381 GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr 400  
1225 CCACTGTAGTATCTGAAATGTTGCTGTGTCGATGGGAGAGACAACTATAAGTGGG 1284  
401 ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly 420  
1285 TGCTTTACGAGGTCAAAAGTGGTGCATCCTCCACACAGTGCCTTTGGGCGCTCT 1344  
421 CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440  
1345 GCAGCTCAAGACTAGAGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCA 1404  
441 AlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer 460  
1405 GATCAAGTTTCAGAAATGCGCTCATTTGATGCTTTTGGGCGCTTTCATCAGAAATGCA 1464  
461 AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly 480  
1465 GCTGTCTCTCAGCGTTCATCCAGCTTGAGATGAAGGATTAAACCTCCAGAACAGCCAG 1524  
481 AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln 500  
1525 TGGATGAATGGCAGACTGATCTGTGACAGCCGCTGGGAAGGACACTTTGTTCTTATC 1584  
501 TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle 520  
1585 ACCTGGACAAACGAGCTCCCAATTCCTTCTGGAATCCAGTCCAGTGGACAGAAAGCAAGT 1644  
521 ThrTrpThrThrGlnProGlnIleLeuLeuIleuTrpAspProSerGlyGlnLysGlnGly 540  
1645 GCGTTTGTAGTGGACAAACCAAAATGGCTTACCTCCAAATCCCGGCAATTCCTAAG 1704

541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560  
1705 GTTGGCACTTGAAATACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTCAAG 1764  
561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr 580  
1765 TCCCTGCGTCCAATGCTACCTGCTGCTCAATTCAGTGAATTCGCAAAACGAAAGGAC 1824  
581 SerArgAlaSerAsnAlaThrLeuProPheThrValThrSerLysThrAsnLysAsp 600  
1825 ACCACCAATTCCTCCAGCCCTCTGCTAGTTCGATGCAATATTCGCAAGAGGCTCCCA 1884  
601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
1885 ATTCTCAGGCGCAGTGTCTCACAGCCCTGATTGAATCAGTCAATCGAAAAACAGTTACTT 1944  
621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640  
1945 GAATCTGGATTAATGGAGCAGGCTGCTGATCTACTTAAGGATGACGGTGTCTACTCAAG 2004  
641 GlnLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 660  
2005 TATTTTCAAACTTATGACACGAAATGCTAGATACAGTGTAAAGTCCGGCTCTGGGAGGA 2064  
661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680  
2065 GTTAAACGAGCCAGACGAGGAGTGTATACCCAGCAGAGTGGAGCACTGATACATACCTGGC 2124  
681 ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700  
2125 TGGATTGAGATGATGAATACAATGGAATCCCAAGACCTGAAATTAATTAAGGATGAT 2184  
701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720  
2185 GTTCAACACAAAGCAAGTGTGTTTCAGCAGAACTCTCGGGAGGCTCATTTGGGCTTCT 2244  
721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740  
2245 GATGTCCCAATGCTCCCATCTCATCTCTTCCACCTCGGCAATATCACGACCTGGAAG 2304  
741 AspValProAsnAlaProIleProAspLeuPheProGlyGlnIleThrAspLeuLys 760  
2305 GCGGAAATTCAGGGGCGAGTCTCAATTAATCTGACTTGGACAGCTCTCGGGATGATTA 2364  
761 AlaGluIleHisGlyGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr 780  
2365 GACCATGGACAGCTCAAGTATATCATTCGAATAGTACAGTATTTCTTGATCTCAGA 2424  
781 AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg 800  
2425 GACAAATTCATGAATCTCTCAAGTGAATACTACTCTCTCATCCCAAGGAAGCAAC 2484  
801 AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820  
2485 TCTGAGGAAGTCTTTTGTTTAAACCAAGAAACATTTACTTTTGAATAATCGCACAGATCT 2544  
821 SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu 840  
2545 TTCATTGCTATTTCAGCTGTTGATGAAGTCGATCGAATTCGAATTCAGAAATATCCACATTGCA 2604  
841 PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla 860  
2605 CGAGTATCTTTCTTTTATTCCTCCAGACTCCGCGCAGAGACACCTAGTCTCTGATGAACG 2664  
861 ArgValSerLeuPheIleProGlnThrProProGluThrProSerProAspGluThr 880  
2665 TCTGCTCTCTTGTCTTAATTCATATCAACAGCACCATTCTCGGCAATTCACATTTTAAAA 2724  
881 SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys 900  
2725 ATTATGTGAAGTGAATGAGGAGAACTGACGCTGTCAATAGCC 2766  
901 IleMetTrpLysTrpIleGlyLeuGlnLeuSerIleAla 914

RESULT 13  
US-10-369-214-133  
; Sequence 133, Application US/10369214  
; Publication No. US2003023037A1  
; GENERAL INFORMATION:  
; APPLICANT: Groot, Pieter C.  
; APPLICANT: Berghenhouwen van, Bram J.  
; APPLICANT: Oosterhout van, Antoon J.M.  
; TITLE OF INVENTION: Genes involved in immune related responses observed  
; TITLE OF INVENTION: with asthma  
; FILE REFERENCE: P53837US00  
; CURRENT APPLICATION NUMBER: US/10/369,214  
; CURRENT FILING DATE: 2003-02-15  
; PRIOR APPLICATION NUMBER: EP 00202867.8  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: PCT/NL01/00610  
; PRIOR FILING DATE: 2001-08-16  
; NUMBER OF SEQ ID NOS: 139  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 133  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (1)..(914)  
; OTHER INFORMATION: /note="Human CLC1"  
US-10-369-214-133

Alignment Scores:  
Pred. No.: 0 Length: 914  
Score: 4751.00 Matches: 912  
Percent Similarity: 99.89% Conservative: 1  
Best Local Similarity: 99.78% Mismatches: 1  
Query Match: 88.31% Indels: 0  
DB: 15 Gaps: 0

US-09-049-696-20 (1-2983) x US-10-369-214-133 (1-914)

QY	25	ATGGGGCCATTAAAGATTCTGTTCATCTCTGTTCACTTCTGATCTTCACTTCTAGAGGGGCCCTG	84
Db	1	MetGlyProPheLysSerValPheIleLeuIleLeuHisLeuLeuGluGlyAlaLeu	20
QY	85	AGTAATTCATCTTCACTGCTGAACACATGCTATGAGGCAATGCTGCTGCAATCCAC	144
Db	21	SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValAlaIleAsp	40
QY	145	CCCAATGTCAGAGATGAACACTCATTTCAACAAATAAGGACATGTCACCCAGGCA	204
Db	41	ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla	60
QY	205	TCTGTATCTGTTTGAAGCTACAGAAAGCGATTTTATTTCAAAATTTGTCCTATTTG	264
Db	61	SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu	80
QY	265	ATTCCTGAACATGAACAAAGCTGACTATGTGACACCAACAACTTGAGACCTTACAA	324
Db	81	IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys	100
QY	325	AATGCTGATGTTCTGCTGCTGCTACTCTCCAGGTAAATGATGAACCCCTACACTGAG	384
Db	101	AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu	120
QY	385	CAGATGGGCACTGTGGAGAGAGGATCCACCTCACTCTGATTTTCATTGCA	444
Db	121	GlnMetGlyAsnCysGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla	140
QY	445	GGAAAAAGTTAGCTGAATATCGACCAAGGTAGGCAATTTGTCATCAGTGGGCTCAT	504
Db	141	GlyLysLeuAlaGluTyrGlyProGlnGlyLysAlaPheValHisIleGluTrpAlaHis	160
QY	505	CTACGATGGGAGTATTTGACGAGTACAATAATGATGAGAAATTTCTACTTATCCAATGA	564

Db	161	LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly	180
QY	565	AGAAATACAGCAGTAAGATGTTACGACAGTATTACTGTACAAATGTAGTAAGAGTGT	624
Db	181	ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysCys	200
QY	625	CAGGAGGCGAGCTGTTACACAAAGATGCACATTCAATAAGTAAACAGGACTCTATGA	684
Db	201	GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu	220
QY	685	AAAGGATGTGATTTGTTCTCCAATCCCGCAGACGAGAGGCTTCTATAATGTTGCA	744
Db	221	LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla	240
QY	745	CAACATGTTGATTTCTATAGTTGAATTTCTGACAGACAAACCAACCAACAAAGACTCCA	804
Db	241	GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro	260
QY	805	AACAAAGCAAAATCAAAATCAATCTCGAAGACATCGGAAGTGCATCGTATTCTGTAG	864
Db	261	AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu	280
QY	865	GACTTTAAAGAAACCACTCTATGACAAACACAGCCCAAAATCCACCTTCTCATTTGCTG	924
Db	281	AspPheLysLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu	300
QY	925	CAGATTGGACAAAGAAATTTGTTAGTCTTGTGACAAATCTGGAAGCATGCGGACTGTT	984
Db	301	GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly	320
QY	985	AACGCGCTCAATCGACTGAATCAAGCAGCGCAGCTTTTCTGCTGCAGACATTCAGCTG	1044
Db	321	AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu	340
QY	1045	GGGTCTCTGGTGGGATGGTGACATTTGACAGTGTGCTGCCCATGTGACAAAGTGAATCT	1104
Db	341	GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle	360
QY	1105	CAGATAACAGTGGCAGTGACAGGACACACTCGCCCAAAAGATTACCTGCAGCAGCTTCA	1164
Db	361	GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaAsp	380
QY	1165	GGAGGAGCTCCATCTGACGGGGCTTCGATCGGCATTTACTGTGATAGGAAGAAATAT	1224
Db	381	GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr	400
QY	1225	CAAATGATGATCTGAAATTTGCTGCTGACGGATGGGAGACAACTATAAGTGGG	1284
Db	401	ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly	420
QY	1285	TGCTTTACGAGGTCAACAAAGTGGTCCCATCATCCACAGTCGCTTTGGGGCCCTCT	1344
Db	421	CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProser	440
QY	1345	GCAGCTCAAGAACTAGAGGAGCTGTCCAAATAGCAGGAGGTTTACAGACATATGCTTCA	1404
Db	441	AlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer	460
QY	1405	GATCAAGTTCAGAAATGCGCTCATTTGATGCTTTGGGGCCCTTTTCATCAGGAATGGA	1464
Db	461	AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly	480
QY	1465	GCTGTCTCTCAGCGCTCCATCCAGTTGAGTAGGATTAACCTCCAGACAGCCAG	1524
Db	481	AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln	500
QY	1525	TGGATGAATGCACAGTGCATCGTGACAGCCGCTGGGAAAGGACACTTTGTTCTTATC	1584
Db	501	TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle	520
QY	1585	ACCTGGACAAACGACGCTCCCAAAATCTTCTGGGATCCAGTGGACAGAGCAAGT	1644

Db 521 ThrTrpThrThrGlnProGlnProGlnLeuLeuLeuTrpAspProSerGlyGlnIysGlnGly 540  
Qy 1645 GCGTTTGTAGTGGCAAAACCAAAATGGCTACCTCCAAATCCAGCGATTGCTAAG 1704  
Db 541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560  
Qy 1705 GTTGGCACTTGAATATACAGTCTGCMAGCAAGCTCAAAACCTTGACCTGACTGTCAGG 1764  
Db 561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr 580  
Qy 1765 TCCCGTGGCTCAATGCTCCCTCCCTCAATATACAGTCACTTCCAAAACGACAGGAC 1824  
Db 581 SerArgAlaSerAsnAlaThrLeuProProfileThrValThrSerLysThrAsnLysAsp 600  
Qy 1825 ACCAGCAATTCGCCAGCTCTGGTAGTATTCGAAATATTCGCAAGAGCCCTCCCA 1884  
Db 601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
Qy 1885 ATTCTCAGGCGCAGTGTACAGCCCTGATTGAATCAGTGAATGGAAAACAGTTACCTTG 1944  
Db 621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640  
Qy 1945 GAACTACTGGATAATGGACAGCTGCTGATGCTACTTAAGGATCAGCGTCTACTCAAG 2004  
Db 641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspGlyValTyrSerArg 660  
Qy 2005 TATTTTCAACATTTATGACAGCAATGTAGATACAGTGTAAAAGTCGGGCTCTGGAGGA 2064  
Db 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680  
Qy 2065 GTTAACGACGACGAGGAGTGTATACCCAGCAGAGTGGAGCAGTGTACATACCTGGC 2124  
Db 681 ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700  
Qy 2125 TGGATTGAGATGATGAATATAAATGGAATCCACCAAGCTGAAATTAATGAATGAT 2184  
Db 701 TrpIleGluAsnAspGluIleGlnTrpAsnProArgProGluIleAsnLysAspAsp 720  
Qy 2185 GTTCAACACAAAGCATGTGTTTACAGCAACATCCTCGGAGGCTCATTTGCGGCTCT 2244  
Db 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740  
Qy 2245 GATGTCCTCAATGCTCCCATCTGATCTCTCCACCTGGCCCAATACCCAGCTGAAG 2304  
Db 741 AspValProAsnAlaProIleProAspLeuPheProGlyGlnIleThrAspLeuAsn 760  
Qy 2305 CGGGAATTCAGGGGCGAGTCTCAATATCTGACTTGGACAGCTCTCGGAGTATAT 2364  
Db 761 AlaGluIleHisGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr 780  
Qy 2365 GACCATGGAACAGCTCACAAATATATCATTCGAATTAAGTACAAATATCTTCATCTCAGA 2424  
Db 781 AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg 800  
Qy 2425 GACAAATTCATGAATCTCTCAAGTGAATATCTGCTCTCATCCCAAGAGCCCAAC 2484  
Db 801 AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820  
Qy 2485 TCTGAGGAGTCTTTTGTTHAAACAGAAACATCTTTTGAANAATGGACAGATCTT 2544  
Db 821 SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu 840  
Qy 2545 TTCATTGCTATTACAGCTGTTTCATAGGTCGATCTGAAATCAGAAATATCCAACTTCCA 2604  
Db 841 PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla 860  
Qy 2605 CGAGTATCTTTGTTTATCTCCACAGACTCCGCCAGAGACACCTAGTCTCTGATGAAAG 2664  
Db 861 ArgValSerLeuPheIleProGlnThrProGluThrProSerProAspGluThr 880  
Qy 2665 TCTGCTCTCTGCTTAATATTCATATCAACAGCAGATTCCTGGCATTACATTTTAA 2724  
Db 881 SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLys 900

Qy 2725 ATTATGTGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCC 2766  
Db 901 IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914

## RESULT 14

US-10-106-698-6388  
; Sequence 6388, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005PI  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 6388  
; LENGTH: 869  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: MISC\_FEATURE  
; LOCATION: (14)  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-10-106-698-6388

## Alignment Scores:

Pred. No.: 0 Length: 869  
Score: 4476.00 Matches: 858  
Percent Similarity: 99.65% Conservative: 1  
Best Local Similarity: 99.54% Mismatches: 3  
Query Match: 83.20% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-20 (1-2983) x US-10-106-698-6388 (1-869)

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Db 8 IleArgHisGluValThr\*\*\*AlaSerLeuTyrLeuPheGluAlaThrGlyLysArgPhe 27  
Qy 241 TATTTCAAAATGTTGCCATTTGATTCCTGAAACATGGAACAAAGCTGACTATGTG 300  
Db 28 TyrPheLysAsnValAlaIleLeuIleProGluThrTrpLysThrLysAlaAspTyrVal 47  
Qy 301 AGACCAAACTTGACACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCTCCA 360  
Db 48 ArgProLysLeuGluThrTyrLysAsnAlaAspValLeuAlaGluSerThrProPro 67  
Qy 361 GGTATGATGAACCTTACACTGAGCAGATGGCAACTGTGGAGAGAAGGCTGAAAGGATC 420  
Db 68 GlyAsnAspGluProTyrThrGluGlnMetGlyAsnCysGlyGluLysGlyGluArgIle 87  
Qy 421 CACTCATCTCTGATTTTCATTGTCAGGAAAAAGTTAGTCTGAATATGGACCAAGGTAGG 480  
Db 88 HisLeuThrProAspPheIleAlaGlyLysLysLeuAlaGluTyrGlyProGlnGlyArg 107  
Qy 481 GCATTTGTCATGAGTGGCTCATCTACATGGGAGATTTTACGAGTACAGTACATATGAT 540  
Db 108 AlaPheValHisGluTrpAlaHisLeuArgTrpGlyValPheAspGluTyrAsnAsnAsp 127  
Qy 541 GAGAAATCTACTTATCCAAATGGAAGAATACAAGCAGTAAGATGTTTACGACGCTATTACT 600  
Db 128 GluLysPheTyrLeuSerAsnGlyArgIleGlnAlaValArgCysSerAlaGlyIleThr 147  
Qy 601 GGTACAAATGTAGTAAAGAAGTGTCCAGGAGGACGCTGTTACACCAAAAGATGCATTC 660



Db	148	GlyThrAsnValValLysLysCysGlnGlyGlySerCysTyrThrLysArgCysThrPhe	167
Qy	661	AAATAAGTAACAGGACTCTATCAAAAGAGATGTGAGTTTGTCTCCAATCCCGCCAGAGC	720
Db	168	AsnLysValThrGlyLeuTyrGlnLysGlyCysGluPheValLeuGlnSerArgGlnThr	187
Qy	721	GAGAAAGGCTTCTATTAATGTTGACAAACATGTGTTGATTTCTATAGTTGAAATTTCTGTACAGAA	780
Db	188	GluLysAlaSerIleMetPheAlaGlnHisValAspSerIleValGluPheCysThrGlu	207
Qy	781	CAAAACCAACAAGAGCTCCAAACCAAGCAAAATCAAAATGCAATCTCCGAAGCACA	840
Db	208	GlnAsnHisAsnLysGluAlaProAsnLysGlnAsnGlnLysCysAsnLeuArgSerThr	227
Qy	841	TGGGAAGTGATCCGGATTCTGAGACATTTAAGAAACCACTCTATGACACACAGACCA	900
Db	228	TrpGluValIleArgAspSerGluAspPheLysThrThrProMetThrThrGlnPro	247
Qy	901	CCAAATCCACCTTCTCATTTGCTGAGATTGACAAAGAAATTTGTGTTTGTCTTGCAC	960
Db	248	ProAsnProThrPheSerLeuLeuGlnIleGlyGlnArgIleValCysLeuValLeuAsp	267
Qy	961	AAATCTGGAAGCATGGGACTGTAAACCGCTCAATCGACTGAATCAAGAGCGCCAGCTT	1020
Db	268	LysSerGlySerMetAlaThrGlyAsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeu	287
Qy	1021	TTCTCTGCTGCAGACAGTTGAGCTGGGCTCGGTTGGATGGTGACATTTGACAGTGCT	1080
Db	288	PheLeuLeuGlnThrValGluLeuGlySerTrpValGlyMetValThrPheAspSerAla	307
Qy	1081	GCCCATGTACAAAGTCAACTCATACAGATAAACAGTGGCAGTGACAGGACACACTCGCC	1140
Db	308	AlaHisValGlnSerGluLeuIleGlnIleAsnSerGlySerAspArgAspThrLeuAla	327
Qy	1141	AAAAGATTACTGACAGCTTTCAGAGGAGCGTCCATCTGCAGCGGGCTTCGATCGGCA	1200
Db	328	LysArgLeuProAlaAlaAlaSerGlyGlyThrSerIleCysSerGlyLeuArgSerAla	347
Qy	1201	TTTACTGTGATTAGAGAAATATCCAACTGATGATCTGAATTTGCTGCTGACGGAT	1260
Db	348	PheThrValIleArgLysLysTyrProThrAspGlySerGluIleValLeuLeuThrAsp	367
Qy	1261	GGGGAAGCAACACTATTAAGTGGTCTTAAACAGAGGTCAAAACAAAGTGGTCCCATCATC	1320
Db	368	GlyGluAspAsnThrIleSerGlyCysPheAsnGluValLysGlnSerGlyAlaIleIle	387
Qy	1321	CACACAGTCGCTTTGGGCGCTCTCGAGCTCAAGAACTAGAGAGCTGTCCAAAATGACA	1380
Db	388	HisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGluLeuSerLysMetThr	407
Qy	1381	GGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACATGGCTCATTTGATGCTTTT	1440
Db	408	GlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsnGlyLeuIleAspAlaPhe	427
Qy	1441	GGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCAGCGCTCCATCCAGCTTGAGAGTAAG	1500
Db	428	GlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSerIleGlnLeuGluSerLys	447
Qy	1501	GGATTAACTCCAGAACAGCAGCTGGATGAATGCGACAGTGATCGTGACAGCACCGTG	1560
Db	448	GlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrValIleValAspSerThrVal	467
Qy	1561	GGAAAGGACATTTCTTTCTTATACCTGGCAACGCGAGCTCCCAATCTCTCTCGG	1620
Db	468	GlyLysAspThrLeuPheLeuIleThrTrpThrThrGlnProProGlnIleLeuLeuTrp	487
Qy	1621	GATCCCACTGGACAGAGCTGGCTTGTAGTGGACAAAAACCAAAAATGGCCCTAC	1680
Db	488	AspProSerSerGlyGlnLysGlnGlyGlyPheValValAspLysAsnThrLysMetAlaTyr	507
Qy	1681	CTCCAAATCCCAAGGCAATGCTTAAGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA	1740
Db	508	LeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyrSerLeuGlnAlaSerSer	527
Qy	1741	CAAACTTTGACCTGACTGTACGTCCTCGTCCGAATGCTCAATGCTTACCTCCTCAATTACA	1800
Db	528	GlnThrLeuThrLeuThrValThrSerArgAlaSerAsnAlaThrLeuProProIleThr	547
Qy	1801	GTGACTTCCAAAACGAAACAGACACACAGCAAAATTCCTCCAGCCCTCTGGTAGTTATGCA	1860
Db	548	ValThrSerLysThrAsnLysAspThrSerLysPheProSerProLeuValValTyrAla	567
Qy	1861	AATATTCCGCAAGAGCCCTCCCAATTTCTCAGGCGCAGTGTACAGCCCTGATTCATCA	1920
Db	568	AsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerValThrAlaLeuIleGluSer	587
Qy	1921	GTGAATGAAAAACAGATTACCTTGGAACTACTTGGATAATGGACAGGTGCTGATGCTACT	1980
Db	588	ValAsnGlyLysThrValThrLeuGluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThr	607
Qy	1981	AAGGATGACGGTGTCTACTCAAGGTATTTCAACTTATGACACGAATGGTAGATACAGT	2040
Db	608	LysAspAspGlyValTyrSerArgTyrPheThrThrTyrAspThrAsnGlyArgTyrSer	627
Qy	2041	GTAAAGTCGGGCTCTGGGAGGAGTTAACGCGCCAGCCAGCGAGAGTATATCCCGCAG	2100
Db	628	ValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArgValIleProGlnGln	647
Qy	2101	AGTGAGCACTGTACATACCTCGGCTGGATTGAGAAATGATGAAATCAATGGAATCCACCA	2160
Db	648	SerGlyAlaLeuTyrIleProGlyTrpIleGluAsnAspGluIleGlnTrpAsnProPro	667
Qy	2161	AGACTGAAATTAATAAGGATGATGTTCAACACAAAGAGTGTGTTTCAGCAGAAATCC	2220
Db	668	ArgProGluIleAsnLysAspAspValGlnHisLysGlnValCysPheSerArgThrSer	687
Qy	2221	TCGGAGGCTCATTTGTGGCTTCGATGTCCTCCAAATGCTCCCATCTCTCTCTCCCA	2280
Db	688	SerGlyGlySerPheValAlaSerAspValProAsnAlaProIleProAspLeuPhePro	707
Qy	2281	CCTGSCCAAAATCACCGACTCAAGCGGAAATTCACGGGGCGAGTCTCATTAATCTGACT	2340
Db	708	ProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyLysLeuIleAsnLeuThr	727
Qy	2341	TGGACAGCTCTCGGGATGATTATGACCATGGAACAGCTCAAGTATATATCATTCGAATA	2400
Db	728	TrpThrAlaProGlyAspAspTyrAspHisGlyThrAlaHisLysTyrIleIleArgIle	747
Qy	2401	AGTACAAGTATCTTGATCTCAGAGACAACTTCAATGAATCTCTTCAAGTGAATACTACT	2460
Db	748	SerThrSerIleLeuAspLeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThr	767
Qy	2461	GCTCTCATCCCAAGGAGCAACTCTCAGGAAGTCTTTTGTGTTTAAACCCAGAAAACATT	2520
Db	768	AlaLeuIleProLysGluAlaAsnSerGluGluValPheLeuPheLysProGluAsnIle	787
Qy	2521	ACTTTTGAATGGCACAGATCTTTTTCATTCATTCAGGCTGTTGTATGAAGTCAATCTG	2580
Db	788	ThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAlaValAspLysValAspLeu	807
Qy	2581	AAATCAGAAATATCCAACATTCGACAGTATCTTTGTTTATTTCTCCACAGACTCGCCA	2640
Db	808	LysSerGluIleSerAsnIleAlaArgValSerLeuPheIleProProGlnThrProPro	827
Qy	2641	GAGACACCTACTCTGTGATAAAGCTCTCTCTGCTCTTAATATATCATATCAACAGCAC	2700
Db	828	GluThrProSerProAspGluThrSerAlaProCysProAsnIleHisIleAsnSerThr	847
Qy	2701	ATTCCTGCAATTCATTTTAAAAATATGTGGAAGTCGATAGAGAACTGCAGCTGTCA	2760
Db	848	IleProGlyIleHisIleLeuLysIleMetTrpLysTrpIleGlyGluLeuGlnLeuSer	867
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; Sequence 2, Application US/10270595  
; Publication No. US20030078409A1  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; PRIOR FILING DATE: 2002-10-16  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
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; PRIOR APPLICATION NUMBER: US 08/697,471  
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; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2  
; LENGTH: 913  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-10-270-595-2

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Pred. No.: 1,35e-302 Length: 913  
Score: 3656.50 Matches: 694  
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Best Local Similarity: 75.85% Mismatches: 112  
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US-09-049-696-20 (1-2983) x US-10-270-595-2 (1-913)

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QY	85	AGTAATCTACTTCACTTCACTGAGCAACAATGGCTATGAGGCACTTCTGTCGATTCGAC	144
DB	21	SerGluSerLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu	40
QY	145	CCCAATGTCGACAGATGAACACATCTTCAACAATAAAGACATGTCGACCCAGGCA	204
DB	41	HisAspValProGluAspGluAlaLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu	60
QY	205	TCTCTGTACTGTTCAGCTACAGAAAGCGATTTTATTCAAAAATGTGTCATTTTG	264
DB	61	SerProTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaLeu	80
QY	265	ATTCTCGAAACATGGAAGCAAAAGGCTGACTGTGAGACCAAACTTCGAGACTACAAA	324
DB	81	IleProGluSerTrpLysAlaLysProGluTyrThrArgProLysLeuGluThrPheLys	100
QY	325	ATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCTTACCTGAG	384

DB	101	AsnAlaAspValLeuValSerThrThrSerProLeuGlyAsnAspGluProTyrThrGlu	120
QY	385	CAGATGGGCAACTGTGGAGAGAAAGGTGAACAGATCCACCTCCTCCTCATTTTCATGCA	444
DB	121	HisIleGlyAlaCysGlyGlyLysGlyIleArgIleHisLeuThrProAspPheLeuAla	140
QY	445	CGAAAAAGTTAGCTCAATATGACACCAAGGTAGGCAATTTGTCCATCAGTGGGCTCAT	504
DB	141	GlyLysLysLeuThrGlnTyrGlyProGlnAspArgThrPheValHisGluTrpAlaHis	160
QY	505	CTACGATGGGAGTATTTGACGAGTACATAATATGATGAGAAATTTCTACTTATCCATGA	564
DB	161	PheArgTrpGlyValPheAsnGluTyrAsnAspGluLysPheTyrLeuSerLysGly	180
QY	565	AGAATACAAAGCAGTAAAGTTCACAGGTATTCAGTGTACAAATGATGTAAGAAGTGT	624
DB	181	LysProGlnAlaValArgCysSerAlaAlaIleThrGlyLysAsnGlnValArgArgCys	200
QY	625	CAGGAGGCGCTGTTACACCAA---AGATGCACATTCAATAAAGTACAGGACTCTAT	681
DB	201	GlnGlyGlySerCysIleThrAsnGlyLysCysValIleAspArgValThrGlyLeuTyr	220
QY	682	GAAAAAGGATGTGAGTTTCTTCCAAATCCCGCAGACGAGAGGCTTCTATAATGTTT	741
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QY	742	GCACACATGTTGATTCTATAGTTTGAATTCCTGACAGCAAAACCAACAAAGAGCT	801
DB	241	AsnGlnAsnIleAsnSerValValGluPheCysThrGluLysAsnHisAsnGlnAla	260
QY	802	CCAAACAGCAAAATCAAAAATGCAATCTCCAGACGACATGGGAAGTATCGTGATTCT	861
DB	261	ProAsnAspGlnAsnGlnArgCysAsnLeuArgSerThrTrpGluValIleGlnGluSer	280
QY	862	GAGGACTTTAAGAAAAACCACTCTTATGACACACAGCCACCAAAATCCCACCTTCTCAT	921
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QY	982	GGTAACCGCTCAATCGACTGAATCAAGCAGCGCAGCTTTTCTGCTGCAGACAGTTGAG	1041
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QY	1042	CTGGGCTCTGGTGGGATGTGACATTTGACAGTCTGCCCATCTACAAAGTGAATC	1101
DB	341	GlnGlySerTrpValGlyMetValThrPheAspSerAlaAlaTyrValGlnSerGluLeu	360
QY	1102	ATACAGATAAAGCAGTGGCAGTACAGGGACACACTCGCCAAAAGATTACCTGCAGCAGCT	1161
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QY	1162	TCAGAGGAGCAGTCCATCTGCGCGGGCTTCGATCGGCAATTTACTGTGATTAGGAAGAA	1221
DB	381	AlaGlyGlyThrSerIleCysSerGlyLeuArgThrAlaPheThrValIleLysLysLys	400
QY	1222	TATCCAACTGATGATCTGAATTTGCTGCTGCGGATGGGGAGACAACTATAAGT	1281
DB	401	TyrProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSer	420
QY	1282	GGGTGCTTTAAGCAGGTCAAAAGAGTGGTGCATCATCCACACAGCTCCCTTTGGGGCCC	1341
DB	421	SerCysPheAspLeuValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyPro	440
QY	1342	TCTGAGCTCAAGAACTAGAGAGCTGTCCAAAATGACAGGAGGTTTACAGACATATGCT	1401
DB	441	AlaAlaAlaLysGluLeuGluGlnLeuSerLysMetThrGlyGlyLeuGlnThrTyrSer	460
QY	1402	TCAGATCAAGTTCAAGCAAAATGCTCATTTGCTGTTTGGGGCCCTTTTCATCAGAAAT	1461
DB	461	SerAspGlnValGlnAsnGlyLeuValAspAlaPheAlaLeuSerSerGlyAsn	480

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481 AlaAlaIleAlaGlnHisSerIleGlnLeuGluSerArgGlyValAsnLeuGlnAsnAsn 500
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501 GlnTrpMetAsnGlySerValIleValAspSerSerValGlyLysAspThrLeuPheLeu 520
QY 1582 ATCACCCTGCACAACGAGCTCCCAAAATCCTCTCTGGATCCCGAGTGGAGAGCA 1641
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521 IleThrTrpThrHisProProThrIlePheIleTrpAspProSerGlyValGluGln 540
QY 1642 GTGGCTTTGTAGTGACAAAAACCAAAATGGCTTACTCTCAAAATCCAGCCGCAATTGCT 1701
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541 AsnGlyPheIleLeuAspThrThrLysValAlaIleValLeuGlnValProGlyThrAla 560
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561 LysValGlyPheTrpLysTyrSerIleGlnAlaSerSerGlnThrLeuThrLeuThrVal 580
QY 1762 AGTCCCGTGGCTCAATGCTACCCCTGCTCCAAATACAGTGCATCTCCAAAACGACAG 1821
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581 ThrSerArgAlaAlaSerAlaThrLeuProProIleThrValThrProValValAsnLys 600
QY 1822 GACACGACCAATTTCCCGAGCCCTCTGGTAGTTTATGCAAAATATTCGCCAAGGAGCCTCC 1881
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601 AsnThrGlyLysPheProSerProValThrValTyrAlaSerIleArgGlnGlyAlaSer 620
QY 1882 CCAATTTCTCAGGCGCCAGTGTCAAGCCCTGATGAATCAAGTGAATGGAAGAAACAGTTACC 1941
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621 ProIleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThr 640
QY 1942 TTGGAACTACTGGATTAATGGACAGGTGCTGATCTACTACTAAGTACCGTGTCTACTCA 2001
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641 LeuGluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAsnAspGlyValTyrSer 660
QY 2002 AGGTATTTCCACAACTTATCACAGATGTGTAGATACAGTGAAGTAAAGTGGGCTCTGGGA 2061
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661 ArgPhePheThrAlaPheAspAlaAsnGlyArgTyrSerValLysIleTrpAlaLeuGly 680
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681 GlyValThrSerAspArgGlnArgAlaAlaProProLysAsnArgAlaMetTyrIleAsp 700
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701 GlyTrpIleGluAspGlyGluValArgMetAsnProProArgProGluThrSerTyr--- 719
QY 2182 GATGTTTCAACACAAAGCAAGTGTGTTTCAGCAGAACATCTCCGGAGGCTCATTTGTGGCT 2241
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720 ---ValGlnAspLysGlnLeuCysPheSerArgThrSerSerGlyGlySerPheValAla 738
QY 2242 TCTGATGTCCCA---AATGCTCCCATACCTGATCTCTCCACCTGGCCAAATCACCGAC 2298
Db |||:||||| |||:||||| |||:||||| |||:||||| |||:||||| |||:||||| |||:|||||
739 ThrAsnValProAlaAlaAlaProIleProAspLeuPheProProCysGlnIleThrAsp 758
QY 2299 CTGAAGCGGAAATTCACGGGGGAGTCTCATTAATCTGACTTGGACAGCTCCTGGGGAT 2358
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759 LeuLysAlaSerIleGlnGlyAsnLeuValAsnLeuThrTrpThrAlaProGlyAsp 778
QY 2359 GATTATGACCATGGACAGCTCACAGTATATCATTAATGATTAAGTACAGTATCTTGTAT 2418
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QY 2419 CTCAGAGACAAGTTCATGAATCTCTTCAAGTCAATACTACTCTCTCATCCCAAGGAA 2478
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799 LeuArgAspHisPheAsnThrSerLeuGlnValAsnThrThrGlyLeuIleProLysGlu 818
QY 2479 GCCAACTCTGAGGAGTCTTTTGTGTTTAAACGAGAAACATTACTTTTGAAATGGCACA 2538
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819 AlaSerSerGluGluIlePheGluPheGluLeuGlyGlyAsnThrPheGlyAsnGlyThr 838
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QY 2599 ATTGCACGAGTATCTTTGTTTATTCCTCCACAGACTCCGCCAGACACCTTAGTCTCTGAT 2658
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859 IleAlaArgValSerValPheIleProAlaGlnGluPro-----ProIleProGlu 875
QY 2659 GAAACGCTGCTCCTTGTCCTTAATTCATATCAACAGCACCATTCTCTGGCATTCCACATT 2718
Db |||:||||| |||:||||| |||:||||| |||:||||| |||:||||| |||:||||| |||:|||||
876 AspSerThrProProCysProAspIleSerIleAsnSerThrIleProGlyIleHisVal 895
QY 2719 TTAAAAATTATCTGGAAGTGGATAGAGAACTGCAGCTGTCAATA 2763
Db |||:||||| |||:||||| |||:||||| |||:||||| |||:||||| |||:||||| |||:|||||
896 LeuLysIleMetTyrLysTrpLeuGlyGluMetGlnValThrLeu 910
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GenCore version 5.1.6  
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Title: US-09-049-696-20

Perfect score: 5380

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	4753	88.3	914	4	US-09-193-562D-28
3	3656.5	68.0	913	4	US-09-623-624-2
4	2866.5	53.3	917	4	US-09-049-698-41
5	2462.5	45.8	903	4	US-09-193-562D-46
6	2411.5	44.8	903	4	US-09-623-624-18
7	2328	43.3	905	4	US-09-193-562D-2
8	2324.5	43.2	902	4	US-09-193-562D-34
9	2258.5	42.0	1000	4	US-09-193-562D-30
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ALIGNMENTS

RESULT 1

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; Sequence 6, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
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; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
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; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01

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! ORGANISM: Homo sapiens  
US-09-623-624-6

Alignment Scores:  
Pred. No.: 0 Length: 914  
Score: 4754.00 Matches: 913  
Percent Similarity: 99.89% Conservative: 0  
Best Local Similarity: 99.89% Mismatches: 1  
Query Match: 88.36% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-20 (1-2983) x US-09-623-624-6 (1-914)

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QY 25 ATGGGGCCATTAAAGAGTTCTGTGTTTCATCTTGTGATTTTACCTTCTAGAGGGGCCCTTG 84
DB 1 MetGlyProPheLysSerValPheIleLeuIleLeuHisLeuLeuGluGlyAlaLeu 20
QY 85 AGTAATTCATCTCATTGAGTGAACAACTGCTATGAAGGCAATGCTGCTGCAATCGAC 144
DB 21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40
QY 145 CCCATGTCAGAGATGAACACTCATTCAACAATAAGGACATGGTGACCCAGGCA 204
DB 41 ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla 60
QY 205 TCTCTGTATCTGTTGAAGTACAGAAAGCGATTTTATTTCAAAATGTTGCCATTTTG 264
DB 61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80
QY 265 ATTCTGAAACATGAAGCAAAAGGCTGACTATGTAGAGACCAAACTTGAGACCTACAAA 324
DB 81 IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys 100
QY 325 ATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAAATGATGAACCTTACACTGAG 384
DB 101 AsnAlaAspValLeuValAlaGluSerThrProGlyAsnAspGluProTyrThrGlu 120
QY 385 CAGATGGGCAACTGTGGAGAGAGGTTGAAAGGATCCACCTCCTCTGATTTCAATTGCA 444
DB 121 GlnMetGlyAsnGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGly 140
QY 445 GGAATAAGTTAGCTCAATATGACACCAAGTGGGCAATTTGTCCATGAGTGGCTCAT 504
DB 141 GlyLysLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis 160
QY 505 CTACGATGGGAGTATTTGACGAGTACATATATGATGAGAAATTTCTATTATCCCAATGGA 564
DB 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180
QY 565 AGAATACAGCAGTAAAGTGTTCAGCAGGTATTTACTGTGACAAATGTAGTAAGAAGTGT 624
DB 181 ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValLysLysCys 200
QY 625 CAGGGAGGCGAGTGTGTACACCAAAAGATGCACATTTCAATTAAGTAAACGAGTCTATGAA 684
DB 201 GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLys**ThrGlyLeuTyrGlu 220
QY 685 AAAGATGTGAGTTGTTCTTCAATCCCGCCAGAGGAGGCTTCTATATATGTTTGA 744
DB 221 LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla 240
QY 745 CAACATGTTGATTCATAGTTGAATTTCTGACAGAACCAAAACCAACAAAGAAGCTCCA 804
DB 241 GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro 260
QY 805 AACAGCAAAATCAAAATTCATCTCCGAGCACATGGGAAAGTGCATGCTGATCTGAG 864
DB 261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu 280
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QY 865 GACTTTAAAGAAAACCATCTCTATGACAAACAGCCACCAAAATCCCACTTCTCATTTGCTG 924
DB 281 AspPheLysLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu 300
QY 925 CAGATTGGACAAAGAAATTTGTGTTTGTCTCTGCAAAATCTGGAAGCATGCGCAGCTGT 984
DB 301 GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320
QY 985 AACCGCTCAATCGACTGAATCAAGCAGCCAGCTTTTCTGCTGCACAGACTTCAGCTG 1044
DB 321 AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuGlnThrValGluLeu 340
QY 1045 GGGTCTCGGTTGGGATGCTGACATTTGACAGTGTGCTCCCATGTGTAAGTGAACCTCAT 1104
DB 341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle 360
QY 1105 CAGATAAAGTGGCAGTGACAGGACACACTCGCCAAAAGATTAACCTGCAGCAGCTTCA 1164
DB 361 GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaAsp 380
QY 1165 GGAGGACGTCATCTGCGAGCGGCTTCGATCGGCAATTTACTGTGATTAGGAGAAATAT 1224
DB 381 GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr 400
QY 1225 CCAACTGATGATCTGAAATTTGTGCTGCTGACGGATGGGAGACAACTATAAGTGGG 1284
DB 401 ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly 420
QY 1285 TGCTTTAAACGAGGTCAAAACAAAGTGTGCTCATTCACACAGTGCCTTTGGGGCCTCT 1344
DB 421 CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440
QY 1345 GCAGTCAAGACTAGAGAGCTGTCCAAATAGCAGGAGGTTTACAGACATATGCTTCA 1404
DB 441 AlaAlaGlnGluLeuGluGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer 460
QY 1405 GATCAAGTTCAGAACAAATGGCTCATTTGCTGCTGGGCGCTTTCATCAGGAATGGA 1464
DB 461 AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly 480
QY 1465 GCTGTCTCTCAGCGCTCCATCCAGCTTGAGATGAAGGATTAACCTCCAGAACAGCCAG 1524
DB 481 AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln 500
QY 1525 TGGATGAATGACAGTGTGATGTCAGCAGCAGCCGTTGGGAAAGGACACTTTGTTCTTATC 1584
DB 501 TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle 520
QY 1585 ACCTGGACAAACGCGCTCCCAAAATCCTTCTCTGGGATCCCAATCCAGTGACAGAACAG 1644
DB 521 ThrTrpThrThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGly 540
QY 1645 GCGTTTGTAGTGGACAAAACACCAAAATGGCCTACCTCCAAATCCAGGCAATGCTAAG 1704
DB 541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560
QY 1705 GTTGGCATTGGAAATACAGTCTGCAAGCAGCTCACAAACCTTGACCTGCTGCTCAGC 1764
DB 561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr 580
QY 1765 TCCCGTGTGCTCAATGCTTACCTCCTCAATTCAGTGACTTCCAAACAGAACAGGAC 1824
DB 581 SerArgAlaSerAsnAlaThrLeuProIleThrValThrSerLysThrAsnLysAsp 600
QY 1825 ACCAGCAAAATCCCGAGCCCTCTGCTAGTTTATGAAATATTTCGCAAGGAGCCCTCCCA 1884
DB 601 ThrSerLysPheProSerProLeuValTyrAlaAsnIleArgGlnGlyAlaSerPro 620
QY 1885 ATTCTCAGGGCCAGTGTACAGCCCTGATGATGATGATGATGATGATGATGATGATGATG 1944
DB 621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640
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QY 1945 GAACACTGGATATGAGCAGGTGCTGATGCTACTAAGATGACGGTGTCTACTCAAGG 2004
Db 641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspGlyValTyrSerArg 660
QY 2005 TATTTTCAACAATTATCACAGCAATGTAGATACAGGTAAAGTGGGGCTCTGGGAGGA 2064
Db 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680
QY 2065 GTTAAAGCCAGCCAGCAGAGATGATACCCAGCAGAGTGGAGCACTGTACATACCTGGC 2124
Db 681 ValAsnAlaAlaArgArgValIleProGlnSerGlyAlaLeuTyrIleProGly 700
QY 2125 TGGATTGAGATGATGAATACATGAATGATCAACCAAGCCTGAATTAATGAAGATGAT 2184
Db 701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720
QY 2185 GTTCAACAACAAGCAAGTGTGTTTACAGCAACATCTCGGAGGCTCATTTGGGCTCT 2244
Db 721 ValGlnHisLysGlnValCysPheSerArgThrSerGlyGlySerPheValAlaSer 740
QY 2245 GATGTCCCAAAATGCTCCCATACCTGATCTCTTCCCACTGGCCAAATCACCCACCTGAAG 2304
Db 741 AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuLys 760
QY 2305 GCGGAATTCACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCTCGGGATGATAT 2364
Db 761 AlaGluIleHisGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr 780
QY 2365 GACCATGGACAGCTCACAGTATATCATTCGAATAGTACAGTATCTTGATCTCAGA 2424
Db 781 AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg 800
QY 2425 GACAACTTCAATGAATCTCTCAAGTGAATATCTACTGCTCTCATCCCAAGGAAGCAAC 2484
Db 801 AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820
QY 2485 TCTGAGGAAGTCTTTTGTGTTAAACAGAAACATTAATCTTTGAAATGGCAGATCTT 2544
Db 821 SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu 840
QY 2545 TTCATTGCTATTACAGCTGTGATAGGTGATCTGAATCAGAAATATCCACATTGCA 2604
Db 841 PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla 860
QY 2605 CGAGTATCTTTGTTTATCTCCACAGACTCCGCCAGACACCTAGTCTCTGATGAACG 2664
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QY 2665 TCTGCTCTCTGCTTAATATTCATATCAACAGCACCATTCTCGGCATTCACATTTTAAAA 2724
Db 881 SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys 900
QY 2725 ATTATGTGAAGTGAATGAGAGAACTGCGAGCTGTCTCAATAGCC 2766
Db 901 IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914
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## RESULT 2

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US-09-193-562D-28
; Sequence 28, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 28
; LENGTH: 914
; TYPE: PRT
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; ORGANISM: Homo sapiens
US-09-193-562D-28
Alignment Scores:
Pred. No.: 0 Length: 914
Score: 4753.00 Matches: 912
Percent Similarity: 100.00% Conservatives: 2
Best Local Similarity: 99.78% Mismatches: 0
Query Match: 88.35% Indels: 0
DB: 4 Gaps: 0
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US-09-049-696-20 (1-2983) x US-09-193-562D-28 (1-914)

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Db 1 MetGlyProPheLysSerSerValPheIleLeuLeuHisLeuLeuGluGlyAlaLeu 20
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Db 21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40
QY 145 CCCAATGTCCCAAGATGAAACACTCATTAACAATAAAGACATGCTGACCCAGGCA 204
Db 41 ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla 60
QY 205 TCTCTGTATCTGTTTCAAGCTACAGAAAGCGATTTTATTTCAAAAATGTTGCCATTTG 264
Db 61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80
QY 265 ATCTCTGAACATGGAAGCAAGGCTGACTATGTGAGACCAAACTTGAACCTACAA 324
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QY 325 AATGCTGATGTTCTGTTCTGCTGCTACTCTCTCCAGGTAAATGATCAACCTACACTGAG 384
Db 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120
QY 385 CAGATGGGCAACTGTGTGAGAGAGGGTGAAAGGATCCACCTCACTCTCTGATTTTCAATGCA 444
Db 121 GlnMetGlyAsnCysGlyGlyLysGlyGluArgIleHisLeuThrProAspPheIleAla 140
QY 445 GGAATAAAATGTTAGCTGAATATGACCAAGGTAGGCGATTTGTCCTCAGTGGGCTCAT 504
Db 141 GlyLysLysLeuAlaGluTyrGlyProGlnGlyLysAlaPheValHisGluTrpAlaHis 160
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Db 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180
QY 565 AGAATAACAAGCAGTAAGATGTTTCAGCAGGTATTACTGTGTACAAATGTAGTAAAGAGTGT 624
Db 181 ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys 200
QY 625 CAGGGAGGAGCTGTTTACACCAAAAGATGCACATTCATTAAGTAACAGGACTCTATGAA 684
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QY 685 AAAGGATGTGAGTTTGTCTTCCAAATCCCGCCAGACGAGAGGCTTCTATATGTTTGA 744
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QY 745 CAACATGTTGATTCTATAGTTGTAATTTCTGTACAGAAACAAACCAACAAAGAGTCCA 804
Db 241 GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro 260
QY 805 AACAAAGCAAAATCAAAAATGCAATCTCCGAAGCACATGGGAAGTGTATCGGTGATCTGAG 864
Db 261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu 280
QY 865 GACTTTAAGAAAACCACTCTCTATGACACACAGCCACCAAAATCCCACTTCTCTATGCTG 924
Db 281 AspPheLysLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu 300
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925 CAGATTGGCAAAAGAAATGCTGTGTTAGTCCTTGACAAATCTGGAAGCATGCGCACTGCT 984  
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301 GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320  
985 AACCGCTCAATCGACTGAATCAAGCAGCCAGCTTTCTCTGCTGAGACAGTGTAGCTG 1044  
Db  
321 AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu 340  
1045 GGGTCTCGGTGGATGGTGTGACATTTGACAGTGTGCCCATGTACAAAGTCAACTCAT 1104  
Db  
341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeu 360  
1105 CAGATAAAACAGTCGAGTCACAGGACACATCGCCAAAAGATTACTCCAGCAGCTTCA 1164  
Db  
361 GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaLys 380  
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QY  
381 GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr 400  
1225 CCAACTGATGATCTGAATTCGCTGCTGCTGCGATGGGAGACACACTATAGTGGG 1284  
QY  
401 ProThrAspGlySerGluLeuValLeuLeuThrAspGlyGluAsnThrIleSerGly 420  
1285 TGCTTTAACGAGTCAAAAGTGGTGCATCATCCACAGTCGCTTTGGGGCCCTCT 1344  
Db  
421 CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440  
1345 GCAGCTCAAGAACTAGAGAGCTGTCCAAAATGACAGGAGTTTACAGACATATGCTCA 1404  
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441 AlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer 460  
1405 GATCAAGTTCAAGAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1464  
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461 AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly 480  
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481 AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln 500  
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501 TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeu 520  
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521 ThrTrpThrGlnProGlnIleLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu 540  
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541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560  
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Db  
561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr 580  
1765 TCCCGTGGCTCAATGCTACCTGCTCCAAATACAGTCACTTCCAAAACGACAGGAC 1824  
QY  
581 SerArgAlaSerAsnAlaThrLeuProIleThrValThrSerLysThrAsnLysAsp 600  
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QY  
601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
1885 ATTCTCAGGCGCAGTGTCAAGCCCTGATGTAATCAGTGAATGGAATAACAGTTACCTTG 1944  
Db  
621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640  
1945 GAACACTGGAATAAGGACAGCTGCTGATGCTACTAGGATGAGGCTGCTACTCAAG 2004  
QY  
641 GlnLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspGlyValTyrSerArg 660  
2005 TATTTTCAAACTTATGACACGAATGTTAGATACAGTGTAAAAGTGGGCTCTGGGAGGA 2064

661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680  
QY  
2065 GTTAACGACGACGACGAGTGTATACCCAGCAGAGTGGAGCACTGTACATACCTGCG 2124  
Db  
681 ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700  
2125 TGGATTGGAATGATGAATCAATGGAATCCACCAAGACCTGAAATTAATAAGGATCAT 2184  
QY  
701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720  
2185 GTTCAACCAAGCAAGTGTGTTTTCAGCAACAATCCTCGGAGGCTCATTTGTGCTTCT 2244  
QY  
721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740  
2245 GATGTCCCAATGTCTCCCATACCTGATCTCTCCACCTGCGCAATCACCAGCACTGAAG 2304  
QY  
741 AspValProAsnAlaProIleProAspLeuPheProGlyGlnIleThrAspLeuLys 760  
2305 GCGGAAATTCAGGGGGCAGTCTCAATTAATCTGACTTGGACAGCTCCTGGGATGATTAT 2364  
QY  
761 AlaGluIleHisGlyGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr 780  
2365 GACCATGGAACAGCTCACAGTATATCATTCGAATAAGTCAACAAGTATTTCTGATCTCAGA 2424  
QY  
781 AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg 800  
2425 GACAAGTTCAATGAATCTCTTCAAGTGAATACTACTCTCTCATCCCAAGGAAGCCAAC 2484  
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801 AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820  
2485 TCTGAGGAAGTCTTTTCTTTAAACCAAGAAACATTTACTTTTGAATAATGGCACAGATCTT 2544  
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821 SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu 840  
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841 PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla 860  
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861 ArgValSerLeuPheIleProGlnThrProGluThrProSerProAspGluThr 880  
2665 TCTGCTCTCTGCTCTTAATATCATATCAACAGCACCATTTCTGGCATTACACATTTTAAA 2724  
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881 SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys 900  
2725 ATTATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCC 2766  
QY  
901 IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914

## RESULT 3

US-09-623-624-2  
; Sequence 2, Application US/09623624  
; Patent No. 6576434

## GENERAL INFORMATION:

; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23



561	Db	LysValGlyPheTrpLysTyrSerIleGlnAlaSerSerGlnThrLeuThrLeuThrVal	580
1762	QY	ACGTCCCGTCGCTCCAATGCTACCGCTCCCTCCAATACAGTGAGCTTCCAAAACGAACAAG	1821
581	Db	ThrSerArgAlaAlaSerAlaThrLeuProProlIleThrValThrProValValAsnLys	600
1822	QY	GACACAGCAAAATTCGCCAGCCCTCTGGTAGTTTATGCAAAATATTGCGCAAGAGAGCCTCC	1881
601	Db	AsnThrGlyLysPheProSerProValThrValTyrAlaSerIleArgGlnGlyAlaSer	620
1882	QY	CCAATTCTCAGGCGCAGTGTCACAGCCCTCATTTGAATTCAGTGAATGAAAGAAAACAGTTTACC	1941
621	Db	ProlIleuArgAlaSerValThrAlaLeuIleGlnSerValAsnGlyLysThrValThr	640
1942	QY	TTGGAATCTACTGGATAATGGAGCAGGTGCTGATGCTACTAAGGATGACGGTGTCTACTCA	2001
641	Db	LeuGlnLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAsnArgAlaMetTyrIleAsp	660
2002	QY	AGGTATTTTCAACTTATGACACGAATGGTAGATACAGTGTAAAGTGGCGGCTCTGGGA	2061
661	Db	ArgPhePheThrAlaPheAspAlaAsnGlyArgTyrSerValLysIleIleTrpAlaLeuGly	680
2062	QY	GGAGTTAAACGAGCCACAGCAGAGTGCATACCCAGCAGAGTGGAGCATGTACATACCT	2121
681	Db	GlyValThrSerAspArgGlnArgAlaAlaProProlLysAsnArgAlaMetTyrIleAsp	700
2122	QY	GGCTGGATTGGAATGATGAATACAAATGGAATCCACCAAGACTGAAATTAATAAGGAT	2181
701	Db	GlyTrpIleGlnAspGlyGluValArgMetAsnProArgProGluThrSerTyr---	719
2182	QY	GATGTTCAACACAGCAAGTGTGTTTCAGCAGAACATCCTCGGAGGCTCATTTGTGGCT	2241
720	Db	---ValGlnAspLysGlnLeuCysPheSerArgThrSerSerGlyGlySerPheValAla	738
2242	QY	TCTGATGTCOCA---AATGTCTCCATACCTGATCTTCTCCACCTGCGCCAAATCACCGAC	2298
739	Db	ThrAsnValProAlaAlaAlaProlIleProAspLeuPheProCysGlnIleThrAsp	758
2299	QY	CTGAAGCGCGAAATTCACGGGGCAGCTCATTAATCTGACTTGGACAGCTCCTGGGGAT	2358
759	Db	LeuLysAlaSerIleGlnGlyGlnAsnLeuValAsnLeuThrTrpThrAlaProGlyAsp	778
2359	QY	GATTATCACCATTGGAACAGCTCACAAGTATATCATTCGAAATAGTACAAGTATCTTGAT	2418
779	Db	AspTyrAspHisGlyArgAlaAlaSerAsnTyrIleIleArgMetSerThrSerIleValAsp	798
2419	QY	CTCAGACACAAGTTCAATGAATCTCTTCAAAGTGAATACTACTGCTCATCTCCAAAGGAA	2478
799	Db	LeuArgAspHisPheAsnThrSerLeuGlnValAsnThrThrGlyLeuIleProLysGlu	818
2479	QY	GCCAACTCTCAGGAGTCTTTTGTGTTTAAACACAGAAAAACATTACTTTTGAATGGCACA	2538
819	Db	AlaSerSerGluGluIlePheGluPheGluLeuGlyGlyAsnThrPheGlyAsnGlyThr	838
2539	QY	GATCTTTTCTATTCTTCAGGCTGTGTGATAAGCTCGATCTGAAATCAGAAAAATATCCAAC	2598
839	Db	AspIlePheIleAlaIleGlnAlaValAspLysSerAsnLeuLysSerGluIleSerAsn	858
2599	QY	ATTGACAGAGTATCTTTGTTTATTCCTCCACAGACTCCGCGACAGACACCTAGTCTGTGAT	2658
859	Db	IleAlaArgValSerValPheIleProAlaGlnGluPro-----ProlIleProGlu	875
2659	QY	GAACAGTCTGCTCTCTCTCTTAATATTCATATCAACAGCACCATCTCTGCGCATTCACATT	2718
876	Db	AspSerThrProProCysProAspAspIleSerIleAsnSerThrIleProGlyIleHisVal	895
2719	QY	TTAAAAATTATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATA	2763
896	Db	LeuLysIleMetTrpLysTrpLeuGlyGluMetGlnValThrLeu	910

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; Patent No. 6368792
;
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA A.
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: HAYDEN, MARK
; APPLICANT: KLASS, MICHAEL R.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
;
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL
; TITLE OF INVENTION: TRACT
; NUMBER OF SEQUENCES: 51
;
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/049,698
; FILING DATE:
;
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/828,856
; FILING DATE: 31-MAR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
;
; REFERENCE/DOCKET NUMBER: 6068.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
;
; TELEX:
;
; INFORMATION FOR SEQ ID NO: 41:
;
; SEQUENCE CHARACTERISTICS:
; LENGTH: 917 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
; MOLECULE TYPE: No. 6368792e
;
; US-09-049-698-41
;
; Alignment Scores:
; Pred. No.: 2,18e-241 Length: 917
; Score: 2866.50 Matches: 562
; Percent Similarity: 75.03% Conservative: 123
; Best Local Similarity: 61.56% Mismatches: 217
; Query Match: 51.28% Indels: 11
; DB: 4 Gaps: 8
;
; US-09-049-696-20 (1-2983) x US-09-049-698-41 (1-917)

```

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B  
B  
B

RESULT 4  
US-09-049-698-41

US-09-049-698-41  
; Sequence 41, Application US/09049698



Qy	205	TCTCTGTATCTGTGTTGAAGCTTACAGGAAAGCGATTTTATTTCACAAATATGTTGCCATTTTG	264
Db	60	SerThrTyrLeuPheGluAlaThrGluLysArgPhePheLysAsnValSerIleLeu	79
Qy	265	ATTCTCTGAACATCGAAGACAAAGCGCTGACTATGTGACACCAAACTTGAGACCTACAAA	324
Db	80	IleProGluAsnTrpLysGluAsnProGlnTyrLysArgProLysHisGluAsnHisLys	99
Qy	325	AATCTCTGATGTTCTGGTGTCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTGAG	384
Db	100	HisAlaAspValIleValAlaProProThrLeuProGlyArgAspGluProTyrThrLys	119
Qy	385	CAGATGGGCAACTGTGGAGAGAAGGTGAAGGATCCACCTCACTCTCTGATTTCATTGCGA	444
Db	120	GlnPheThrGluCysGlyGluLysGlyGluTyrIleHisPheThrProAspLeuLeu	139
Qy	445	GGAAAAAGTTAGCTGAATATGGACCAACAGGTAGGCGATTGTGCCATGAGTGGCGCTCAT	504
Db	140	GluLysLysGlnAsnGluTyrGlyProProGlyLysLeuPheValHisGluTrpAlaHis	155
Qy	505	CTACGATGGGGAGTATTTGACGAGTACAAATATGATGAGAAATTTCTACTTTATCCAATGGA	564
Db	160	LeuArgTrpGlyValPheAspGluTyrAsnGluAspGlnProPheTyrArgAlaLysSer	179
Qy	565	---AGAAATCAACAGCATGAAGTGTTCAGCAGGTATTACTGGTCAAAATGTAGTAAAGAAG	621
Db	180	LysIleGluAlaThrArgCysSerAlaGlyIleSerGlyArgAsnArgValTyrLys	199
Qy	622	TGTCAGGGGACAGCTGTTACACCAAAGATGCACATTCAATAAGTTAACAGGACTCTAT	681
Db	200	CysGlnGlySerCysLeuSerArgAlaCysArgIleAspSerThrThrLysLeuTyr	219
Qy	682	GAATAAGGATGTGATGTGTTCTCCAATCCCGCCAGACGGAGAAGGCTTCTATAATGTTT	741
Db	220	GlyLysAspCysGlnPhePheProAspLysValGlnThrGluLysAlaSerIleMetPhe	239
Qy	742	GCACAACATGTTGATCTTATAGTTGAATCTGTGTACAGACAAAACCAACAAGAAAGCT	801
Db	240	MetGlnSerIleAspSerValValGluPheCysAsnGluLysThrHisAsnGlnGluAla	259
Qy	802	CCAAACAAGCAAAATCAAAATGCAATCTCGAAGCATGGGAGAGTATCCGTGATTCT	861
Db	260	ProSerLeuGlnAsnIleLysCysAsnPheArgSerThrTrpGluValIleSerAsnSer	279
Qy	862	GAGCACTTTAAGAAAAACCTCTTATGACAAACACAGCCACCAATCCCACTCTCTCATTG	921
Db	280	GluAspPheLysAsnThrIleProMetValThrProProProValPheSerLeu	299
Qy	922	CTGCAGATTTGACAAAGAAATGTGTGTTTGTCTTGCACAAATCTGGAAGCATGGCGACT	981
Db	300	LeuLysIleSerGlnArgIleValCysLeuValLeuAspLysSerGlySerMetGlyGly	319
Qy	982	GGTAACCGCCTCAATCCACTGAATCAAGCAGGCCAGCTTTTCTGCTGCAGACAGTTGAG	1041
Db	320	LysAspArgLeuAsnArgMetAsnGlnAlaAlaLysHisPheLeuLeuGlnThrValGlu	339
Qy	1042	CTGGGTCCTGGGTGGGATGGTGACATTTTGACAGTGTGTCGCCATGTACAAAGTGAAC	1101
Db	340	AsnGlySerTrpValGlyMetValHisPheAspSerThrAlaThrIleValAsnLysLeu	359
Qy	1102	ATACAGATAAACACTGGCAGTGCACAGGGACACACTCCGCCAAAAGATTACCTGCAGCAG	1161
Db	360	IleGlnIleLysSerAspGluArgAsnThrLeuMetAlaGlyLeuProThrTyrPro	379
Qy	1162	TCAGGAGGACGTCCTACTGCAGCGGGCTTCGATCGGCAATTTACTGTGATTAGGAAGAAA	1221
Db	380	LeuGlyGlyThrSerIleCysSerGlyIleLysTyrAlaPheGlnValIleGlyGluLeu	399
Qy	1222	TAT---CCAACTGATGATCTGAATATGTGCTGCTGCGATGGGAGGACCAACACTATA	1278
Db	400	HisSerGlnLeuAspGlySerGluValLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu	419
Qy	1279	AGTGGGTGCTTTAAACGAGGTCAAAACAAGTGGTGCCATCATCCACACAGTCGCTTGGGG	1338

Db 778 GlyAspAsnPhaPheValGlyLysValGlnArgTyrIleAlaArgIleSerAlaSerIle 797  
 QY 2413 CTTGATCTCAGAGACAAGTTCAATGAATCTCTCAAGTGAATACTACTCTCATCCCA 2472  
 Db 798 LeuAspLeuArgAspSerPheAspAlaLeuGlnValAsnThrAspLeuSerPro 817  
 QY 2473 AAGGAAGCAACTCTCAGAGAGCTCTTTTGTGTTTAAACAGAAAACATTACTTTTGA 2532  
 Db 818 LysGluAlaAsnSerLysGluSerPheAlaPheLysProGluAsnIleSerGluGlu 837  
 QY 2533 GGCACAGATCTTTTCATCTGCTTCAATCAGGCTGTGATAGGTGATCTGAATTCAGAA 2592  
 Db 838 AlaThrHisPheIleAlaIleLysSerIleAspLysSerAsnLeuThrSerLysVal 857  
 QY 2593 TCCAACTTCGACGAGTATCTTTGTTTATCTCTCCACAGACTCCGCCAGACACCTAGT 2652  
 Db 858 SerAsnIleAlaGlnValThrLeuPheIle---ProGlnAlaAsnProAspAspIle 876  
 QY 2653 CTTGATGAACCTCTGCTCTCTGCTCTAATATTCATATCAACAGCACCATTCCTGGCAT 2712  
 Db 877 ProThrProThrProThrProAspLysSerHisAsnSer-----GlyVal 893  
 QY 2713 CACATTTTAAATATGAGAGTGGATGAGAGAACTG 2751  
 Db 894 AsnIleSerThrLeuValLeuSerValIleGlySerVal 906  
 RESULT 5  
 US-09-193-562D-46  
 ; Sequence 46, Application US/09193562D  
 ; Patent No. 6309857  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Pauli, Benedicht U.  
 ; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
 ; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
 ; FILE REFERENCE: 18617.0052  
 ; CURRENT APPLICATION NUMBER: US/09/193,562D  
 ; PRIOR FILING DATE: 1998-11-17  
 ; PRIOR APPLICATION NUMBER: US/60/065,922  
 ; PRIOR FILING DATE: 1997-11-17  
 ; NUMBER OF SEQ ID NOS: 47  
 ; SEQ ID NO 46  
 ; LENGTH: 903  
 ; TYPE: PRT  
 ; ORGANISM: Unknown  
 ; FEATURE:  
 ; OTHER INFORMATION: Calcium sensitive chloride channel from bovine tracheal  
 ; epithelium (Cunningham et al., 1995, J. Biol Chem., 270:31016-  
 ; OTHER INFORMATION: 31026)  
 US-09-193-562D-46  
 Alignment Scores:  
 Pred. No.: 3,848-206 Length: 903  
 Score: 2462.50 Matches: 494  
 Percent Similarity: 71.04% Conservative: 139  
 Best Local Similarity: 55.44% Mismatches: 233  
 Query Match: 45.77% Indels: 25  
 DB: 4 Gaps: 13  
 US-09-049-696-20 (1-2983) x US-09-193-562D-46 (1-903)  
 QY 25 ATGGGGCCATTTAAGAGTTCTGTTCATCTTGTGATTTCTACCTTCTAGAGGGCCCTG 84  
 Db 1 MetValProArgLeuThrValIleLeuPheLeuThrLeuHisLeuLeuProGly---Met 19  
 QY 85 AGTAATTCATCTCAGCTGAGCAACATGAGGCTATGAGGCAATCTGCTGCAATCGAC 144  
 Db 20 LysSerSerMetValAsnLeuIleAsnGlyTyrAspGlyIleValIleAlaIleAsn 39  
 QY 145 CCCAATGCCCAGAGATGAACACTCATTCAACAAATAAGCATGTGTGACCCAGGCA 204  
 Db 40 ProSerValProGluAspGluLysLeuIleGlnAsnIleLysGluMetValThrGluAla 59  
 QY 205 TCTCTGTATCTCTTTGAAGCTACAGAAAGCGATTTTATTTCAAAAATGTTGCCATTG 264

Db 60 SerThrTyrLeuPheHisAlaThrLysArgArgValTyrPheArgAsnValSerIleLeu 79  
 QY 265 ATTCTCTGAACATGGAACACAAGCGCTCACTATGTGAGACCAAACTTGTGACACCTACAA 324  
 Db 80 IleProMetThrThrLysSerLysSerGluTyrLeuMetProLysGlnGluSerTyrAsp 99  
 QY 325 AATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAAATGATGAACCCCTACACTGAG 384  
 Db 100 GlnAlaGluValIleValAlaAsnProTyrLeuLysHisGlyAspAspProTyrThrLeu 119  
 QY 385 CAGATGGCAACTGTGGAGAGAAGGTGAAGAGTCCACCTCACTCTCTGATTTCAATGCA 444  
 Db 120 GlnTyrGlyArgCysGlyGluLysGlyGlnTyrIleHisPheThrProAsnPheLeuLeu 139  
 QY 445 GGAATAAAGTTAGCTGAATATGGACCACAAAGTAGGCAATTTGTCATGAGTGGGCTCAT 504  
 Db 140 ThrAsnAsnLeuProIleTyrGlySerArgGlyArgAlaPheValHisGluTrpAlaHis 159  
 QY 505 CTACGATGGGAGTATTTGACGAGTACAATATGATGAGAAATCTCTATTCCTCC---AAT 561  
 Db 160 LeuArgTrpGlyIlePheAspGluTyrAsnGlyAspGlnProPheTyrIleSerArgArg 179  
 QY 562 GGAAGAATACAAGCAGTAAGATGTTTCAGCAGGTATTTACTGGTACAATATGTAGTAAAGA 621  
 Db 180 AsnThrIleGluAlaThrArgCysSerThrHisIleThrGlyThrAsnValIleValLys 199  
 QY 622 TGTGAGGAGGAGCTGTTTACCAAAAGATGCATTCATTAATAAGTAACAGGACTCTAT 681  
 Db 200 CysGlnGlyGlySerCysIleThrArgProCysArgArgAspSerGlnThrGlyLeuTyr 219  
 QY 682 GAATAAGGATGAGTGTGTTCTCCAATCCCGCAGACGAGAGAGGCTTCTATAATGTTT 741  
 Db 220 GluAlaLysCysThrPheIleProGluLysSerGlnThrAlaArgGluSerIleMetPhe 239  
 QY 742 GCACAACTGTTGATTTCTATAGTTGAATTTCTGTACAGAACCAACACCAACAAAGAAGT 801  
 Db 240 MetGlnSerLeuHisSerValThrGluPheCysThrGluLysThrHisAsnValGluAla 259  
 QY 802 CCAACAAGCAAAATCAAAAATGCATCTCCGAGCACATGGGAAGTATCGTGAATCT 861  
 Db 260 ProAsnLeuGlnAsnLysMetCysAsnGlyLysSerThrTrpAspValIleMetAsnSer 279  
 QY 862 GAGACTTTAAGAAAACCACTCTCTATGACA-----ACACAGCCACCAATCCCACTTC 915  
 Db 280 ThrAspPheGlnAsnThrSerProMetThrGluMetAsnProThrGlnProThrPhe 299  
 QY 916 TCATTGCTGCAGATGGGACAAAGAAATGTTGTGTTTAGTCTTGTGACAAATCTGGAAGCATG 975  
 Db 300 SerLeuLeuLysSerLysGlnArgValValCysLeuValLeuAspLysSerGlySerMet 319  
 QY 976 GCGACTGTGTAACCGCTCAATCGACTGAATCAAGCAGGCCAGCTTTCTCTGCTGAGACA 1035  
 Db 320 SerSerGluAspArgLeuPheArgMetAsnGlnAlaAlaGluLeuPheLeuIleGlnIle 339  
 QY 1036 GTTGAGCTGGGCTCTGGGTTGGATGCTGATTTGACATTTGACAGTGTGCCCATGTACAAAGT 1095  
 Db 340 IleGluLysGlySerLeuValGlyMetValThrPheAspSerValAlaGluIleArgAsn 359  
 QY 1096 GAATCTCATACAGATAAACAGTGGCAGTCACAGGACACACTCGCCAAAAGATTCCTGCA 1155  
 Db 360 AsnLeuThrLysIleThrAspAsnValTyrGluAsnIleThrAlaAsnLeuProGln 379  
 QY 1156 GCAGTTCAGGAGGACCTCATCTGACGGGGCTTCGATCGGCAATTT---ACTGTGATT 1212  
 Db 380 GluAlaAsnGlyGlyThrSerIleCysArgGlyLeuLysAlaGlyPheGlnAlaIleIle 399  
 QY 1213 AGGAAGAATATCCAACTGATGGATCTGAATGCTGCTGACGCGTGGGGAACACAC 1272  
 Db 400 GlnSerGlnGlnSerThrSerGlySerGluIleIleLeuLeuThrAspGlyGluAspAsn 419  
 QY 1273 ACTATAAGTGGGTCTTTAACGAGGTCAAACAAAGTGGTGCATCATCCACACAGTCCGT 1332

Db 420 GluIleHisSerCysIleGluGluValLysGlnSerGlyValIleHisThrValAla 439  
QY 1333 TTGGGGCCCTCTCAGCTCAAGACTAGAGGAGCTGTCCAAATGACAGGAGTTTACAG 1392  
Db 440 LeuGlyProSerAlaAlaLysGlnLeuGluThrLeuSerAspMetThrGlyGlyHisArg 459  
QY 1393 ACATATGCTTCAGATCAAGTTCAGAACATGCGCTCATGTATGCTTTTGGGGCCCTTCA 1452  
Db 460 PheTyrAlaAsnLysAspIle-----AsnGlyLeuThrAsnAlaPheSerArgIleSer 477  
QY 1453 TCAGGAATGAGGCTGTCTCTCAGGCTCCATCCAGCTTGAGAGTAAGGATTAACCCCTC 1512  
Db 478 SerArgSerGlySerIleThrGlnThrIleGlnLeuGluSerLysAlaLeuAlaIle 497  
QY 1513 CAGAACAGCCAGTGAATGAGTGCAGTGTGCGAGCAGCAGCGTGGGAAGGACACT 1572  
Db 498 ThrGluLysLysTyrValAsnGlyThrValProValAspSerThrIleGlyAsnAspThr 517  
QY 1573 TTGTTTCTTATCAGCTGGACAGGAGCTCCCAATCTCTCTGGGATCCAGTGA 1632  
Db 518 PhePheValValThrTrpThrIleLysLysProGluIleLeuLeuGlnAspProLysGly 537  
QY 1633 CAG-----AACCAAGGTGCTTTGTAGTGGACAAA---AACACCAAAATGCGCTACCTC 1683  
Db 538 LysLysTyrLysThrSerAspPheLysGluAspLysLeuAsnIleHisSerAlaArgLeu 557  
QY 1684 CAAATCCAGGATTCGTAAGGTGGCACTTGGAAATACAGTCTG-----CAAGCA 1734  
Db 558 ArgIleProGlyIleAlaGluThrGlyThrTrpThrTyrSerLeuLeuAsnHisAla 577  
QY 1735 AGCTCAAAACCTTGACCTGACTGTACGTCCTGCGTCCGTCGCTCACTGCTGCTCA 1794  
Db 578 SerProGlnIleLeuThrValThrValThrArgAlaArgSerProThrThrProPro 597  
QY 1795 ATTACAGTGCATTCACAAACGACAGGACAGCAGCAAAATCCCGAGCCTCTGTAGTT 1854  
Db 598 ValThrAlaThrAlaHisMetAsnGlnAsnThrAlaHisTyrProSerProValIleVal 617  
QY 1855 TATGCAAAATATTCGCAAGGAGCCTCCCAATCTCAGGCGCAGTGTACAGCCCTGATT 1914  
Db 618 TyrAlaGlnValSerGlnGlyPheLeuProValLeuGlyIleAsnValThrAlaIle 637  
QY 1915 GAATCAGTGAATGGAATAACAGTTCCTTGGAACTACTGGAATAATGGACAGGTCTGAT 1974  
Db 638 GluThrGluAspGlyHisGlnValThrLeuGluLeuTrpAspAsnGlyAlaGlyAlaAsp 657  
QY 1975 GCTACTAGGATGAGGCTGTCTACTCAAGTATTTCAAGTATTCACAGTATGCTGAGA 2034  
Db 658 AlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAspThrAsnGlyArg 677  
QY 2035 TACAGTGTAAAGTGTGGGCTCTGGGAGGAGTTAAACGACGAGCGGAGAGTGATACCC 2094  
Db 678 TyrSerValLysValHisAlaGluAlaArgAsnAsnThrAlaArgLeuSerLeuArgGln 697  
QY 2095 CAGCAGAGTGGAGCTGTACATACCTGCTGGATGAGATGATGAATAAATGGAAT 2154  
Db 698 ProGlnAsnLysAlaLeuTyrIleProGlyTyrIleGluAsnGlyLysIleLeuAsn 717  
QY 2155 CCACCAAGACCTGGAATTAATAGGATGATGTTCAACACAGCAAGTG---TGTTTCAGC 2211  
Db 718 ProProArgProGluVal---LysAspAspLeuAlaLysAlaGluIleGluAspPheSer 736  
QY 2212 AGAACATCTCCGGGAGGCTCATTTGGGCTGTGATGTCCTCAAAATGCTCCCATCTGAT 2271  
Db 737 ArgLeuThrSerGlySerPheThrValSerValSerGlyAlaProProGlyAsnHisProSer 756  
QY 2272 CTCCTTCCCACTGGCAATATCCAGACCTGAAGGCG-----GAAATTCACGGGGC 2322  
Db 757 ValLeuProProAsnLysIleThrAspLeuGluAlaLysPheLysGluAspHis----- 774  
QY 2323 AGTCTCATTAATCTGACTTGGACAGCTCTCTGGGATGATTATGACCATGGAACAGCTCAC 2382  
Db 775 -----IleGlnLeuSerTrpThrAlaProAlaAsnValLeuAspLysGlyLysAlaAsn 792

QY 2383 AAGTATATCATTCGAATAAGTACAAAGTATTTCTTGATCTCAGACAGCAAGTTCATGAATCT 2442  
Db 793 SerTyrIleIleArgIleSerLysSerPheLeuAspLeuGlnLysAspPheAsnAla 812  
QY 2443 CTTCAAGTGAATACCTACTGCTCTCATCCCAAGGAGCAACTCTGAGGAAGTCTTTTG 2502  
Db 813 ThrLeuValAsnThrSerSerLeuLysProLysGluAlaGlySerAspGluAsnPheGlu 832  
QY 2503 TTTAAACACAGAAAACATTACTTTTCAAAATGCGACAGATCTTTTCATGCTTATCAGGCT 2562  
Db 833 PheLysProGluProPheArgIleGluAsnGlyThrAsnPheTyrIleAlaValGlnAla 852  
QY 2563 GTTGTAAAGTGTGATCTGAAATACAAATATCAACATTCACGATGATCTTTGTTTAT 2622  
Db 853 IleAsnGluAlaAsnLeuThrSerGluValSerAsnIleAlaGlnAlaIleLysPheIle 872  
QY 2623 CTTCCACAGACTCCCGCCAGACACACTAGTCTCT 2655  
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## RESULT 6

US-09-623-624-18  
; Sequence 18, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 18  
; LENGTH: 903  
; TYPE: PRT  
; ORGANISM: Bos taurus  
US-09-623-624-18

Alignment Scores:  
Pred. No.: 1,08e-201 Length: 903  
Score: 2411.50 Matches: 483  
Percent Similarity: 70.3% Conservative: 144  
Best Local Similarity: 54.21% Mismatches: 239  
Query Match: 44.82% Indels: 25  
DB: 4 Gaps: 13



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Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
718 ProProArgProGluVal---LysAspAspLeuAlaLysAlaGluLeuGluAspPheSer 736
QY 2212 AGAACATCTCGGAGGCTCATTTGGCTCTGATGTCGCCAAATGCTCCCATACCTGAT 2271
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
737 ArgLeuThrSerGlyGlySerPheThrValSerGlyAlaProProGlyAsnHisProSer 756
QY 2272 CTCCTCCACCTGGCCAAATCAACCGACCTGAAGGCG-----GAAATTCACGGGGC 2322
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
757 ValLeuProProAsnLysIleLeuAspLeuAlaLysPheLysGluAspHis-----774
QY 2323 AGTCTCAATTAATCTGCTGGACAGCTCTGGGGATGATTATGACCATGAACAGCTCAC 2382
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
775 -----IleGlnLeuSerTrpThrAlaProAlaAsnValLeuAspLysGlyLysAlaAsn 792
QY 2383 AAGTATATCATTCGAATAGTCAAGTATTCTTGATCTCAGACAGTTCATGAATCT 2442
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
793 SerTyriIleIleArgIleSerLysSerPheLeuAspLeuGlnLysAspPheAsnAla 812
QY 2443 CTTCAAGTGAATACTACTGCTCTCATCCCAAGGAAGCCAACTCTCAGGAAGTCTTTTG 2502
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
813 ThrLeuValAsnThrSerSerLeuLysProLysGluAlaGlySerAspGluAsnPheGlu 832
QY 2503 TTAAACCAAGAAACATTAATCTTTGAAATGGCACAGATCTTTTCTGCTATTACAGCT 2562
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
833 PheLysProGluProPheArgIleGluAsnGlyThrAsnPheTyriLeAlaValGlnAla 852
QY 2563 GTTGATAAGTGCATCTGAAATCAGAAATATCAACATTCAGCAGTACTTTGTTTATT 2622
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
853 IleAsnGluAlaAsnLeuThrSerGluValSerAsnIleAlaGlnAlaIleLysPheIle 872
QY 2623 CCTCCACAGACTCCGCCAGACACACTAGTCTCT 2655
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
873 Pro-----MetProGluAspSerValPro 880

RESULT 7
US-09-193-562D-2
; Sequence 2, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 2
; LENGTH: 905
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells
US-09-193-562D-2

Alignment Scores:
Pred. No.: 2,09e-194 Length: 905
Score: 2328.00 Matches: 465
Percent Similarity: 69.84% Conservative: 144
Best Local Similarity: 53.33% Mismatches: 247
Query Match: 43.27% Indels: 16
DB: 4 Gaps: 11

US-09-049-696-20 (1-2983) x US-09-193-562D-2 (1-905)
QY 46 GTGTTTCATCTGATCTTCCACCTTCTAGAAAGGGCCCTGAGTAATTCATCTCAGCTG 105
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
8 IleLeuPheLeuThrLeuHisLeuLeuProGly---MetLysSerSerMetValAsnLeu 26
QY 106 AACAAACAATGGCTATGAAGGCATTTGTTGCAATCGACCCCAATGTGCCAGAAGATGAA 165
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Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
27 IleAsnAsnGlyTyraaspGlyIleValIleAlaIleAsnProSerValProGluAspGlu 46
QY 166 ACACCTCATTCAACAATAAAGACATGGTGACCCAGGCATCTCTGTATCTGTTTGAAGCT 225
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
47 LysLeuIleGluAsnIleLysGluMetValThrGluAlaSerThrTyriLeuPheHisAla 66
QY 226 ACAGGAACCGATTTTATTTCAAAATGTTGCCATTTTCATCTCCTGAAACATGGAAGACA 285
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
67 ThrLysArgValTyriPheArgAsnValSerIleLeuIleProMetThrTrpLysSer 86
QY 286 AAGGTGACTATGTGAGACCAAACTTGAGACCTACAAAANTGCTGCTGCTGCTGCT 345
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
87 LysSerGluTyriPheIleProLysGlnGluSerTyriAspGlnAlaAspValIleValAla 106
QY 346 GAGTCTACTCTCCAGGTAATGATGAACCTTACACTGAGCAGATGGCAACTCTGCGAGAG 405
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
107 AsnProTyriLeuLysTyriGlyAspAspProTyriThrLeuGlnTyriGlyArgCysGlyGlu 126
QY 406 AAGGTGAAAGGATCCACCTCCTGATTTTCATTCAGGAGAAAAGTTAGCTGAATAT 465
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
127 LysGlyLysTyriIleHisPheThrProAsnPheLeuLeuThrAsnAsnPheHisIleTyri 146
QY 466 GGACCAACAGGTAGGCATTTGTCATGATGGGCTCATCTACGATGGGGAGTATTGAC 525
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
147 GlySerArgGlyArgValPheValHisGluTrpAlaHisLeuArgTrpGlyIlePheAsp 166
QY 526 GAGTCAATAATGATGAGAAATTTACTTATCTC---AATGGAAGAATAACAAGCAGTAAGA 582
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
167 GluTyriAsnValAspGlnProPheTyriIleSerArgLysAsnThrIleGluAlaThrArg 186
QY 583 TGTTCAGCAGGTATTACTGTGTAACAATGTAGTA---AAGAAGTGTGAGGAGGACAGCTGT 639
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
187 CysSerThrHisIleThrGlyIleAsnValPheLysLysCysProGlyGlySerCys 206
QY 640 TACACCAAAAGATGCACATTCAATAAAGTAACAGGACTCTATGAAAAGAGATGTGAGTTT 699
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
207 IleThrSerLeuCysArgAspSerGlnThrGlyLeuTyriGluAlaLysCysThrPhe 226
QY 700 GTTCTCAATCCCGCCAGACGAGAGGCTCTATAATGTTTGCACACACATGTTGATCT 759
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
227 LeuProLysLysSerGlnThrAlaLysGluSerIleMetPheMetProSerLeuHisSer 246
QY 760 ATAGTTGAATCTGTAGCAGAACAAACCAACAAGAGAGCTCCAAACAGCAAAATCAA 819
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
247 ValThrGluPheCysThrGluLysThrHisAsnThrGluAlaProAsnLeuGlnAsnLys 266
QY 820 AAATGCAATCTCCGAAGACATGGGAAGTGATCCGTGATCTGAGGACTTTTAAGAAACC 879
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
267 MetCysAsnGlyLysSerThrTrpAspValIleMetAsnSerValAspPheGlnAsnThr 286
QY 880 ACTCTCTATGACA-----ACACAGCCCAAAATCCACCTCTCTCATTTGTCGAGATTGA 933
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
287 SerProMetThrGluMetAsnProProThrThrHisProThrPheSerLeuLysSerLys 306
QY 934 CAAAGATTTGTGTTTGTCTTCACAAATCTGGAAGCATGCGACTGGTAACCCCTC 993
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
307 GlnArgValValCysLeuValLeuAspLysSerGlySerMetSerAlaGluAspArgLeu 326
QY 994 AATCGACTGAATCAAGACGCGCAGCTTTTCTGTCGACAGACTGAGTGGTGGTCTG 1053
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
327 PheGlnMetAsnGlnAlaGluLeuTyriLeuIleGlnValIleGluLysGlySerLeu 346
QY 1054 GTTGGGATGTCACATTTGACAGCTGCTGCCATGTACAAAGTCAACTCATACAGATAAAC 1113
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
347 ValGlyMetValThrPheAspSerValAlaGluIleGlnAsnHisLeuThrArgIleThr 366
QY 1114 AGTGGCAGTGACAGGACACACTCCGCAAAAGATTACCTGCGACGACTTCAGAGGAGC 1173
Db |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
367 AspAspAsnValTyriGlnLysIleThrAlaLysLeuProGlnValAlaAsnGlyThr 386
QY 1174 TCCATCTCGCGGCTTCGATCGGCAATTT---ACTGTGATTAGGAAGAAATATCCAAC 1230
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387 SerIleCysArgGlyLeuLysAlaGlyPheGlnAlaIleHisSerAspGlnSerThr 406  
1231 GATGATCTGAATTTGCTGCTGCGGATGGGAGACAACTATAGTGGGTCTT 1290  
407 SerGlySerGluIleLeuLeuThrAspGlyGluAspAsnGluIleAsnSerCysPhe 426  
1291 AACGAGGTCAAAAGAGTGGTCCATCCACACAGTGCCTTGGGGCCCTCTCGAGT 1350  
427 GluAspValLysArgSerGlyAlaIleIleHisThrIleAlaLeuGlyProSerAlaIa 446  
1351 CAAGAACTAGAGGAGTGTCCAAATAGACAGAGGTTCACAGACATATGCTTCAGATCA 1410  
447 LysGluLeuGluThrLysSerAsnMetThrGlyGlyTyrArgPhePheAlaLysAsp 466  
1411 GTTCAGAAATGGCTCATTCATGCTTTTGGGGCCCTTTCATCAGGAATAGGAGTGT 1470  
467 Ile-----ThrGlyLeuThrAsnAlaPheSerArgIleSerArgSerGlySerIle 484  
1471 TCTCAGCGCTCCATCCAGCTTCAGAGTAAAGGATTAACCTCCAGAACAGCCAGTGGATG 1530  
485 ThrGlnGlnAlaIleGlnLeuGluSerLysAlaLeuLysIleThrGlyArgLysArgVal 504  
1531 AATGGCACAGTATCGTGACGACCGGTGGGAAAGGACACTTGTTCCTATACCTGG 1590  
505 AsnGlyThrValProValAspSerThrValGlyAsnAspThrPhePheValThrTrp 524  
1591 ACAACGCGCTCCCAATCTCTCTGGGATCCAGTGGACAG-----AAGCAAGT 1644  
525 ThrIleGlnLysProGluIleValLeuGlnAspProLysGlyLysLysTyrLysThrSer 544  
1645 GCCTTTGTAGTGGACAAA---AACACCAAAATGGCTCTACCTCCAAATCCAGCATTTGCT 1701  
545 AspPheLysGluAspLysLeuAsnIleArgSerAlaArgLeuGlnIleProGlyIleAla 564  
1702 AAGTTGGCCTGTGAAATACAGTGTG-----CAAGCAAGTTCACAAACCTTGACC 1752  
565 GluThrGlyThrTrpThrTyrSerLeuLeuAsnAsnHisAlaSerSerGlnMetLeuThr 584  
1753 CTGACTGTACCTCCGTCGTCCTCAATGCTACCTCCCTCCCAATACAGTGAATCCAAA 1812  
585 ValThrValThrArgAlaArgSerProThrIleProProValIleAlaThrAlaHis 604  
1813 ACGAAACAGCACACAGCAAAATCCCGACCTCTGTGTATGTTATGCAATATCGCCAA 1872  
605 MetSerGlnHisThrAlaHisTyrProSerProMetIleValTyrAlaGlnValSerGln 624  
1873 GGAGCTCCCAATTTCTCAGGCCAGTGTCAAGCCCTGATTAATCAGTGAATGAA 1932  
625 GlyPheLeuProValLeuGlyIleSerValIleAlaIleIleGluThrGluAspGlyHis 644  
1933 ACAGTTACCTTGGAACTACTGTAATAGCAGGCTGCTGCTACTACTAAGGATACCGGT 1992  
645 GlnValThrLeuGluLeuThrAspAsnGlyIleArgAspThrValLysAsnAspGly 664  
1993 GTCTACTCAAGGTATTTCACACTTATGACAGAAATGGTAGATACAGTGTAAAGTCGG 2052  
665 IleTyrSerArgTyrPheThrAspTyrTyrGlyAsnGlyArgTyrSerLeuLysValHis 684  
2053 GCTCTGGGAGGAGTTAAACGACGACGAGAGTGAATCCCGACAGAGTGGAGCACTG 2112  
685 AlaGlnAlaArgAsnAsnThrAlaArgLeuAsnLeuArgGlnProGlnLysValLeu 704  
2113 TACATACCTGGCTGGATTCAGATGATGAATACAAATGGAATCCACCAAGACTGAATT 2172  
705 TyrValProGlyTyrValGluAsnGlyLysIleLeuAsnProProArgProGluVal 724  
2173 AATAAGGATGATGTTCAACACAGCAAGTGTGTTTCAGCAGACACATCTCTCGGAGGCTCA 2232  
725 LysAspAspLeuAlaLysAlaLysIleGluAspPheSerArgLeuThrSerGlyGlySer 744  
2233 TTTTGGCTTCTGATGTC---CCAATGCTCCCATCTGATCTCTTCCCACTGGCCAA 2289  
745 PheThrValSerGlyAlaProProGlyAsnHisProSerValPheProSerLys 764

2230 ATACCCGACCTGAAGCGGAAATTCACGGGGCAGTCTCATTAATCTGACTTGGACAGCT 2349  
765 IleThrAspLeuGluAlaLysPheLys---GluAspTyrIleGlnLeuSerTrpThrAla 783  
2350 CTTGGGATGATATTGACCATCGAACAGCTCACAAGTATATCATTCGATAATAGTACAAGT 2409  
784 ProGlyAsnValLeuAspLysGlyLysAlaAsnSerTyrIleIleArgIleSerLysSer 803  
2410 ATTCTTGATCTCAGAGACAAAGTTCATCAATCTCTCAAGTGAATACTACTCTCTCATC 2469  
804 PheMetAspArgGlnGluAspPheAspAsnAlaThrLeuValAsnThrSerAsnLeuIle 823  
2470 CCAAGGAAGCAACTCTGAGGAAGTCTTTTGTATTAACACAGAAAAACATTACTTTTGA 2529  
824 ProLysGluAlaGlySerLysGluAsnPheGluPheLysProGluHisPheArgValGlu 843  
2530 AATGSCACAGATCTTTTTCATTCGCTATTCAGGCTGTGTATAAGTTCGATCTGAAATCAGAA 2589  
844 AsnGlyThrLysPheTyrIleSerValGlnAlaIleAsnGluAlaAsnLeuIleSerGlu 863  
2590 ATATCCACATTCGACGAGTATCTTGTGTTTATTCCT 2625  
864 ValSerHisIleValGlnAlaIleLysPheIlePro 875

## RESULT 8

US-09-193-562D-34  
; Sequence 34, Application US/09193562D  
; Patent No. 6309857

## GENERAL INFORMATION:

; APPLICANT: Pauli, Benedict U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 34

; LENGTH: 902

; TYPE: PRT

; ORGANISM: Mus musculus

US-09-193-562D-34

Alignment Scores:  
Pred. No.: 4,21e-194 Length: 902  
Score: 2324.50 Matches: 479  
Percent Similarity: 67.90% Conservative: 143  
Best Local Similarity: 52.29% Mismatches: 257  
Query Match: 43.21% Indels: 37  
DB: 4 Gaps: 15

US-09-049-696-20 (1-2983) x US-09-193-562D-34 (1-902)

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1 MetValProGlyLysLeuGlnValLeuLeuPheLeuThrLeuHisLeuLeuGlnAsnThr 19  
85 AGTAATTCATCTCATTTCAGCTGAACCAATGGCTATGAAGGCATTGTCTGCAATCGAC 144  
20 GluSerMetValHisLeuAsnSerAsnGlyTyrGluGlyValValIleAlaIleAsn 39  
145 CCCATGTGCCAGAGATGAACACTTCATCAAAATATAAGGACATGGTGACCCAGCA 204  
40 ProSerValProGluAspGluArgLeuIleProSerIleLysGluMetValThrGlnAla 59  
205 TCTCTGTATCTGTTGAAGCTACAGAAAGCGATTATTTCAAAATGTTGCCATTGTTG 264  
60 SerThrTyrLeuPheGluAlaSerGlnGlyArgValTyrPheArgAsnIleSerIleLeu 79  
265 ATTCTGAAACATGGAAGACAAAGCTGACTATGTGAGACCAAAACCTTGAGACCTACAA 324

Db 80 ValProMetThrTriplysSerlySerGluTyrLeuMetProlyAspGluSerTyrAsp 99  
QY 325 AATGCTGATGTTCTGGTCTGAGTCTACTCCTCCAGGTAATGATGAACCCCTACACTGAG 384  
Db 100 LysAlaAspValIleValAlaAspProHisLeuGlnHisGlyAspProTyrThrLeu 119  
QY 385 CAGATGGGCAACTGTGGAGAGAGGTGAAAGATCCACTCCTCTGATTTCTGCA 444  
Db 120 GlnTyrGlyGlnCysGlyAspArgGlyGlnTyrIleHisPheThrProAsnPheLeuLeu 139  
QY 445 GCAAAAAAGCTAGCTGAATATGACACACAAAGGTAGGGCAATTTGCTCCACTGAGTGGGCTCAT 504  
Db 140 ThrAspAsnLeuArgIleTyrGlyProArgGlyArgValPheValHisGluTrpAlaHis 159  
QY 505 CTACGATGGGAGTATTTACGAGTACAAATAATGATGAGAAATTTCTACTATCC---AAT 561  
Db 160 LeuArgTyrGlyValPheAspGluTyrAsnValAspArgSerProTyrIleSerArgLys 179  
QY 562 GGAAGNATACAGCAGTAAAGTGTTCAGCAGGTATTTACTGGTACAAATGTAGTAAGAAG 621  
Db 180 AsnThrIleGluAlaThrArgCysSerAlaSerIleThrGlyLysValValHisGlu 199  
QY 622 TGTGAGGAGGAGCTGTTTACACCAAGATGCACATTCATAAAGTAAACGAGCTCTAT 681  
Db 200 CysGlnArgGlySerCysValThrArgAlaCysArgAspSerLysThrArgLeuTyr 219  
QY 682 GAAAAAGGATGTGAGTGTCTTCTCCAAATCCCGCAGACGAGAGGCTTCTATAATGTTT 741  
Db 220 GluProLysCysThrPheIleProAspLysIleGlnThrAlaGlyAlaSerIleMetPhe 239  
QY 742 GCACAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAACAAACACAAAGAGCT 801  
Db 240 MetGlnAsnLeuAsnSerValValGluPheCysThrGluAsnAsnHisAsnAlaGluAla 259  
QY 802 CCAACAACGAAAAATCAAAATGCAATCTCCAGGCACATGGAGTGATCGTGATCT 861  
Db 260 ProAsnLeuGlnAsnLysMetCysAsnArgArgSerThrTrpAspValIleLysThrSer 279  
QY 862 GAGGACTTTAAAGAAACCACTCCTATG-----ACAAACAGCCACCAATCCCACTTC 915  
Db 280 AlaAspPheGlnAsnAlaProProMetArgGlyThrGluAlaProProProThrPhe 299  
QY 916 TCATTGCTGCAGATGGGCAAGAAATTTGTGTTAGTCTCTTGACAAATCTCGAAGCATG 975  
Db 300 TyrLeuLeuLysSerArgArgValValCysLeuValLeuAspLysSerGlySerMet 319  
QY 976 GCGACTGTAAACCGCTCAATCGATGATCAAGCAGGCCACTTTTCTCGTGTGAGACA 1035  
Db 320 AspLysGluAspArgLeuIleArgMetAsnGlnAlaAlaGluLeuTyrLeuThrGlnIle 339  
QY 1036 GTTGAGCTGGGCTCTGGGTTGGGATGGTGACATTTGACAGTGTGCCCATGTACAAAGT 1095  
Db 340 ValGluLysGluSerMetValGlyLeuValThrPheAspSerAlaAlaHisIleGlnAsn 359  
QY 1096 GAATCATACAGATAAACAGTGGCAGTGAAGGACACACTCCCAAAAGATTAAGTCTGCA 1155  
Db 360 TyrLeuIleLysIleThrSerSerAspTyrGlnLysIleThrAlaAsnLeuProGln 379  
QY 1156 GCAGTCTCAGGAGGAGCTGCTCAGCAGCGGCTTCGATCGCATTTACTGTGATTAGG 1215  
Db 380 GlnAlaSerGlyGlyThrSerIleCysHisGlyLeuGlnAlaGlyPheGlnAlaIleThr 399  
QY 1216 AAGAAA---TATCCAACCTGATGATCTGAAATTTGCTCTCAGCGATGGGGAAGACAAC 1272  
Db 400 SerSerAspGlnSerThrSerGlySerGluIleValLeuLeuThrAspGlyGluAspAsn 419  
QY 1273 ACTATAAGTGGGTGCTTTAAACGAGGTCAAAAGGTGGTCCCATCATCCACACAGCTCGCT 1332  
Db 420 GlyIleArgSerCysPheGluAlaValSerArgSerGlyAlaIleIleHisThrIleAla 439  
QY 1333 TTGGGGCCCTCTGCAGCTCAAGNACTAGAGGAGCTGTCCAAATGACGAGAGGTTTACAG 1392  
Db 440 LeuGlyProSerArgAlaArgGluLeuGluThrLeuSerAspMetThrGlyGlyLeuArg 459

QY 1393 ACATATGCTTCAGATCAAGTTTCAGAACAAATGCGCTTCATTGATGCTTTTGGGGCCCTTTCA 1452  
Db 460 PheTyrAlaAsnLysAspLeu-----AsnSerLeuIleAspAlaPheSerArgIleSer 477  
QY 1453 TCAGGAAATGGAGCTGCTCTCAGCGCTCCATCCAGCTTGAGAGTAAAGGATTAACCCCTC 1512  
Db 478 SerThrSerGlySerValSerGlnAlaLeuGlnLeuGluSerLysAlaPheAspVal 497  
QY 1513 CAGAACAGCCAGTGAATGGCAGTGTCTGGACAGCAGCAGCCGTGGGAAGGACACT 1572  
Db 498 ArgAlaGlyAlaTyrIleAsnGlyThrValProLeuAspSerThrValGlyAsnAspThr 517  
QY 1573 TTGTTCTTATCACCTGGACAAAGCAGCCTCCCAAAATCCTCTCTGGGATCCAGTGA 1632  
Db 518 PhePheValIleThrTrpMetValLysLysProGluIleIleLeuGlnAspProLysGly 537  
QY 1633 CAGAG-----CAAGTGGCTTTAGTGGACAAA---AACACCAAAATGCGCTACCTC 1683  
Db 538 LysLysTyrThrThrSerAspPheGlnAspAspLysLeuAsnIleArgSerAlaArgLeu 557  
QY 1684 CAAATCCAGGATGCTTAAGTTGGCACTTCGAAATACAGTCTGCAAGCAAGC---TCA 1740  
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QY 1741 CAACTTTCACCTGACTGCTCAGCTCCGTCGCTCCAATGCTACCTGCTGCTCCAATTACA 1800  
Db 578 GlnIleThrMetThrValThrThrArgAlaArgSerProThrMetGluProLeuLeu 597  
QY 1801 GTGACTTCCAAACGAAACAGACACAGCAGCAAAATTCGCCAGCCCTCTGCTAGTTATGCA 1860  
Db 598 GlyTyrCysTyrMetSerGlnSerThrAlaGlnTyrProSerArgMetIleValTyrAla 617  
QY 1861 AATATTCCGCAAGGAGCCTCCCAATTCACGGCCAGTGTACAGCCCTGATTAATCA 1920  
Db 618 ArgValSerGlnGlyPheLeuProValLeuGlyAlaAsnValThrAlaLeuIleGluAla 637  
QY 1921 GTGAATGGAAAAACAGTTTACCTTGGAACTTCTGGATAATGGAGCAGCTGCTGATGCTACT 1980  
Db 638 GluHisGlyHisGlnValThrLeuGluLeuTyrAspAsnGlyAlaGlyAlaAspIleVal 657  
QY 1981 AAGGATGAGGCTGCTACTCAAGTATTTTCACACTTATGACACAGTATGGTAGATACACT 2040  
Db 658 LysAsnAspGlyIleTyrThrArgTyrPheThrAspTyrHisGlyAsnGlyArgTyrSer 677  
QY 2041 GTAAAGTCCGGGCTCTGGGAGGATTAACGAGCAGCAGCAGCAGGAGCTG-----ATA 2091  
Db 678 LeuLysValArg-----ValGlnAlaGlnArgAsnLysThrArgLeuSerLeu 693  
QY 2092 CCCCAGCAGAGTGGAGCAGCTGTACATACCTGGCTGGATTGAGAAATGATGAATACAAATGG 2151  
Db 694 ArgGlnLysAsnLysSerLeuTyrIleProGlyTyrValGluAsnGlyLysIleValLeu 713  
QY 2152 AATCCACCAAGACCTGAAATTAATAGGATGATGTTCAACACAGCAAGTGTGTTTCAGC 2211  
Db 714 AsnProArgProAspValGlnGluAlaIleGluAlaThrValGluAspPheAsn 733  
QY 2212 AGAACATCTCCGGAGGCTCATTTGGGCTCTGATGTCCTCAAAATGCTCCCATACCTGAT 2271  
Db 734 ArgValThrSerGlyLysThrValSerGlyAlaPro-----ProAsp 749  
QY 2272 -----CTCTTCCCACTGGCCCAATTCACGAGCTGAAGCGGAAATTCAC 2316  
Db 750 GlyAspHisAlaArgValPheProProSerLysValThrAspLeuGluAlaGluPheIle 769  
QY 2317 GGGGCGAGTCTCATTAATCTGAGCAGCTCTCTGGGATGATTATGACCATGGAACA 2376  
Db 770 ---GlyAspTyrIleHisLeuThrTrpThrAlaProGlyLysValLeuAspAsnGlyArg 788  
QY 2377 GCTCAAGATATATCATTCGATAGTACAACTATTCTTGTATCTCAGACACAAGTTCAAT 2436  
Db 789 AlaHisArgTyrIleIleArgMetSerGlnHisProLeuAspLeuGlnGluAspPheAsn 808







QY 1405 GATCAAGTTCAAGACCAATGGCCTCATTGATCTTTTGGGCCCTTTTCATCAGCAATGGA 1464  
Db LysAsnIle-----AsnGlyLeuIleAspAlaPheSerArgSerArgSerGly 500  
QY 1465 GCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTAAACCTCCAGAACACGCCAG 1524  
Db SerIleSerGlnGlnAlaLeuGlnLeuGluSerLysThrLeuAsnIleProAlaLysLys 520  
QY 1525 TGATGAATGGCAGTGTCTGGGACAGACCGTGGGAAGACACTTTGTTTCTTATC 1584  
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QY 1585 ACCTGACACAGCAGCTCCCAAACTCTCTGGGATCCAGTCCGACAGAG----- 1638  
Db ThrTrpThrIleGlnLysProAlaIleLeuGlnAspProLysGlyLysLysThr 560  
QY 1639 -----CAAGGTGGCTTTGTAGTGACAAAAACACCAAAATGGCTACCTCCAA 1686  
Db ThrSerAspPheGlnGluGly-----GluLeuAsnIleArgSerAlaArgLeuArg 577  
QY 1687 ATCCAGGCAATGCTTAAGTTGGCACTTGGAAATACAGTCTGCAA-----GCAAGC 1737  
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QY 1738 TCACAAACCTTGACCTGACTGTACGTCCTCGTCCGTCCTCAATGCTACCTGCTCCAAAT 1797  
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QY 1798 ACAGTCACTTCCAAAACGACAGGACACCCAGCAAAATTCCTCCAGCCTCTGGTGTAT 1857  
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QY 1858 GCAATATTTCCGCAAGGACCTCCCAATTCAGGCGCCAGTGTACACCCCTGATTTGAA 1917  
Db AlaCysValSerGlnGlyPheLeuProValLeuGlyIleAsnValThrAlaIleIleGlu 657  
QY 1918 TCAGTGAATGGGAAACAGTACCTTGGAACTACTGATTAATGGACAGCGTGTGATGCT 1977  
Db AsnGluGluGlyHisGlnValThrLeuGluLeuCysAspAsnGlyAlaGlyAlaAspSer 677  
QY 1978 ACTAAGATGAGCGTCTTACTCAAGTATTTCACAACTTATGACACGAATGTTAGTATAC 2037  
Db ValLysAsnAspGlyIleTySerArgTyPheThrAspTyHisGlyAsnGlyArgTy 697  
QY 2038 AGTGTAAAAGTGGCGCTCTGGAGGAGTTAAGCAGCGACGAGAGTGTATACCCAC 2097  
Db SerLeuLysValLeuThrGlnAlaArgLysAsnThrAla-----ArgLeuSerGlnGln 715  
QY 2098 CAGATGGAGCACTGTACATCTGCTGGATGAGATGAGATGAATACAAATGGAATCCA 2157  
Db GlnAsnLysAlaLeuTyThrValProArgTyAlaGluAsnGlyLysIleLeuAsnPro 735  
QY 2158 CCAAGACCTGAAATTAATGAAGTATGTTCAACACAAAGCAAGTG---TGTTTCACGACA 2214  
Db SerLysProGluValThr---AspAspValGluGlyAlaGlnThrAspAspPheSerArg 754  
QY 2215 ACATCTCTGGGAGGCTCATTTGTGGCTCTGATGTC---CCAAATCTCCCATACCTGAT 2271  
Db LeuThrSerGlySerPheThrValSerGlyValProProAsnGlnAsnHisSerGln 774  
QY 2272 CTCCTCCCACTGGGCAATACCGACCTGAGGCGGAAATTCACGGGGGAGTCTCAT 2331  
Db ValPheSerProGlyLysIleValAspLeuGluAlaLysPheGlnGlyAspHis---Ile 793  
QY 2332 ATCTGACTTGACAGCTCTCTGGGATGATTATGACCATGGAACAGCTCACAGTATATC 2391  
Db GlnLeuSerTrpThrAlaProGlyLysValLeuAspLysGlyArgAlaGluSerTyIle 813  
QY 2392 ATTCCAATTAAGTACAAGTATCTTGAATCTCAGACACAAAGTTCATTAATGAATCTTCAAGTG 2451  
Db IleArgIleSerLysHisPheLeuAspLeuGlnGluAspPheAspLysAlaLeuIle 833  
QY 2452 AATACTACTGCTCTCATCCAAAGGACCAACTCTGAGGAAGTCTTTTGTGTTAAACCA 2511

Db 834 AsnThrSerGlyLeuIleProLysGluProGlySerValGluSerPheGluPheLysPro 853  
QY 2512 GAAACATTACTTTTGAATAATGCACAGATCTTTTTCATTGCTATTGAGGCTGTTGATAAG 2571  
Db GluProSerLysIleGluAsnGlyThrThrPheTyIleAlaIleGlnAlaIleHisGlu 873  
QY 2572 GTCGATCTGAATATCAGAAATATCCAAATGACAGATCTTTGTTGTTATCTCCACAG 2631  
Db AlaAsnValThr-SerGluValSerAsnIleAlaGlnAlaThrAsnPheIleProProGln 893  
QY 2632 ACTCCG 2637  
Db 894 GluPro 895  
RESULT 10  
US-09-193-562D-11  
; Sequence 11, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 11  
; LENGTH: 795  
; TYPE: PRT  
; ORGANISM: Unknown  
; FEATURE:  
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells  
US-09-193-562D-11  
Alignment Scores:  
Pred. No.: 1,01e-176 Length: 795  
Score: 2125.00 Matches: 425  
Percent Similarity: 69.62% Conservative: 125  
Best Local Similarity: 53.80% Mismatches: 224  
Query Match: 39.50% Indels: 16  
DB: 4 Gaps: 11  
US-09-049-696-20 (1-2983) x US-09-193-562D-11 (1-795)  
QY 46 GTGTTTCATCTTCAATCTTCCCTTCTAGAGGGCCCTGAGTAATTCATCTTCAGCTG 105  
Db 8 IleLeuPheLeuThrLeuHisLeuLeuProGly--MetLysSerSerMetValAsnLeu 26  
QY 106 AACACAATGGCTTATGAAGGCATTTGCTTGTCAATCGACCCCAATCTGCCAGAGATGAA 165  
Db 27 IleAsnAsnGlyTyAspGlyIleValIleAlaIleAsnProSerValProGluAspGlu 46  
QY 166 ACACCTATTCAACAATAAGGACATGTTGACCCAGCATCTCTGTATCTGTTTGAAGCT 225  
Db 47 LysLeuIleGluAsnIleLysGluMetValThrGluAlaSerThrTyLeuPheHisAla 66  
QY 226 ACAGGAACCGATTTTATTTCAAAATGTTGCCATTTTGCATTTTCCCTGAAACATGGAACA 285  
Db 67 ThrLysArgValTyPheArgAsnValSerIleLeuIleProMetThrTrpLysSer 86  
QY 286 AAGGCTGACTATGTAGACCCAAACTTGAGACCTACAAAATGCTCATCTGTTGTTGCT 345  
Db 87 LysSerGluTyPheIleProLysGlnGluSerTyAspGlnAlaAspValIleAla 106  
QY 346 GAGTCTACTCTCCAGGTAATGATGAACCTACACTGACAGATGGCAACTGTGTGAGAG 405  
Db 107 AsnProTyLeuLysTyGlyAspAspProTyThrLeuGlnTyGlyArgCysGlyGlu 126  
QY 406 AAGGTGAAGGATCCACCTCACTCTGATTTTCAATTTGAGGAAAAAAGTTAGCTGAATAT 465

Db 127 LysGlyLysTyriLeHisPheThrProAsnPheLeuLeuThrAsnAsnPheHisIleTyr 146  
QY 466 GGACACACAGGTAGGCGCATTTGTCATGATGGGCTCATCTAGTGGGAGTATTTCAG 525  
Db 147 GlySerArgGlyArgValPheValHisGluThrPalaHisLeuArgTrpGlyIlePheAsp 166  
QY 526 GAGTCAATTAATGATGAGAAATCTACTTATCC---AATGGAAGATAACAACAGCAGTAAGA 582  
Db 167 GluTyrAsnValAspGlnProPheTyrIleSerArgLysAsnThrIleGluAlaThrArg 186  
QY 583 TGTTGAGCAGGTATTACTGTCATAATGATGTA---AGAAGTGTCCAGGAGCGAGCTGT 639  
Db 187 CysSerThrHisIleThrGlyIleAsnValPheLysCysProGlyGlySerCys 206  
QY 640 TACACCAAAAGATGCACATTCAATAAGTAACAGGACTCTATGAAAGAGTGTGAGTTT 699  
Db 207 IleThrSerLysCysArgAspSerGlnThrGlyLeuTyrGluAlaLysCysThrPhe 226  
QY 700 GTTCTCCAAATCCCGCAGAGGAGGCTTCTATAATGTTTGCACAAATGTTGATTC 759  
Db 227 LeuProLysLysSerGlnThrAlaLysGluSerIleMetPheMetProSerLeuHisSer 246  
QY 760 ATAGTTGAATCTGTACAGAACAAACACACAAAGAGCTCCAAACAGCAAAATCAA 819  
Db 247 ValThrGluPheCysThrGluLysThrHisAsnThrGluAlaProAsnLeuGlnAsnLys 266  
QY 820 AATCGAATCTCCGAGCAGCATGGAGTGATCCGCTGATTCTGAGGACTTTAAGAAACC 879  
Db 267 MetCysAsnGlySerThrTrpAspValIleMetAsnSerValAspPheGlnAsnThr 286  
QY 880 ACTCTTATGACA-----ACACAGCCACCAATCCACCTTCTCATTTGTCGAGATTGGA 933  
Db 287 SerProMetThrGluMetAsnProProThrHisProThrPheSerLeuLeuLysSerLys 306  
QY 934 CAAAGAAATGTGTGTTAGTCTTGACAAATCTGGAAGCATGGCGACTGGTAACCGCTTC 993  
Db 307 GlnArgValValCysLeuValLeuAspLysSerGlySerMetSerAlaGluAspArgLeu 326  
QY 994 AATCGACTCAATCAGCAGCGCTTTCTCGTGCACAGACTTCGAGTGGGCTCGTGG 1053  
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QY 1054 GTTGGGATCGTCACATTTGACAGTGTGCCCATGTACAAAGTCAATCATACAGATAAAC 1113  
Db 347 ValGlyMetValThrPheAspSerValAlaGluIleGlnAsnHisLeuThrArgIleThr 366  
QY 1114 AOTGGCAGTGACGGGACACATCGCCCAAAAGATTACTCGCAGCAGCTTCAGAGGGAGC 1173  
Db 367 AspAspAsnValTyrGlnLysIleThrAlaLysLeuProGlnValAlaAsnGlyGlyThr 386  
QY 1174 TCCATCTCAGCGGCTTCGATCGGCATTT---ACTGTGATTAGGAAGAAATATCCAACT 1230  
Db 387 SerIleCysArgGlyLeuLysAlaGlyPheGlnAlaIleIleHisSerAspGlnSerThr 406  
QY 1231 GATGATCTGAAATATGCTGCTGCGATGGGAGACAAACACTATAAGTGGGTGCTTT 1290  
Db 407 SerGlySerGluIleLeuLeuThrAspGlyGluAspAsnGluIleAsnSerCysPhe 426  
QY 1291 AACGAGGTCAAAACAAAGTGGTCCCATCATCCACAGTCCGTTGGGGCCCTCTGAGCT 1350  
Db 427 GluAspValLysArgSerGlyAlaIleIleHisThrIleAlaLeuGlyProSerAlaAla 446  
QY 1351 CAAGACTAGAGGAGCTGTCAAATATGACAGAGGTTTACACACATATGCTTCAGATCAA 1410  
Db 447 LysGluLeuGluThrLysSerAsnMetThrGlyGlyTyrArgPhePheAlaAsnLysAsp 466  
QY 1411 GTTCAACAAATGCTTATGCTTTGGGCGCTTTCATCAGGAATGGAGTGTCT 1470  
Db 467 Ile-----ThrGlyLeuThrAsnAlaPheSerArgIleSerArgSerGlySerIle 484  
QY 1471 TCTCAGCGCTCCATCCAGTGTGAGAGTAAGGATTAAACCTCCAGAACAGCCAGGTGATG 1530  
Db 485 ThrGlnGlnAlaIleGlnLeuGluSerLysAlaLeuLysIleThrGlyArgLysArgVal 504

QY 1531 AATGCGACAGTCATCGTGGACAGCACCGTGGGAAAGGACACTTTCTTTTATCACCTGG 1590  
Db 505 AsnGlyThrValProValAspSerThrValGlyAsnAspThrPhePheValValThrTrp 524  
QY 1591 ACAACGCGCTCCCAAAATCTCTCTGGGATCCAGTGGACAG-----AAGCAAGGT 1644  
Db 525 ThrIleGlnLysProGluIleValLeuGlnAspProLysGlyLysLysTyrLysThrSer 544  
QY 1645 GCGTTTGTAGTGGACAAA---AACACCAAAATGGCTACCTCCCAATCCAGCGCATGTCT 1701  
Db 545 AspPheLysGluAspLysLeuAsnIleArgSerAlaArgLeuGlnIleProGlyIleAla 564  
QY 1702 AAGGTGGCCTTGGAAATACAGTCTG-----CAAGCAAGGTCCACAACTTGACC 1752  
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QY 1753 CTGACTGTACGTCCTCGGTCCTCAATGCTACCTGCTCCAAATACAGTACTCTCCAAA 1812  
Db 585 ValThrValThrArgAlaArgSerProThrIleProValIleAlaThrAlaHis 604  
QY 1813 ACGAACAGGACACAGCAAAATCCCGAGCCCTCTGTAGTTATGCAAAATATTCGCCAA 1872  
Db 605 MetSerGlnHisThrAlaHisTyrProSerProMetIleValTyrAlaGlnValSerGln 624  
QY 1873 GGAGCTCTCCCAATTTCTCAGGCGCAGTGTACAGCCCTGATTGAATCAGTGAATGGAAA 1932  
Db 625 GlyPheLeuProValLeuGlyIleSerValIleAlaIleIleGluThrGluAspGlyHis 644  
QY 1933 ACAGTTACTCTGGAACTACTCGATAATGAGCAGCTGTGATGTCTACTAAGATGACGT 1992  
Db 645 GlnValThrLeuGluLeuTrpAspAsnGlyAlaGlyArgAspThrValLysAsnAspGly 664  
QY 1993 GTCTACTCAGGTATTTTACAACTTATCACAGATGTGTAGTACAGTGTAAAGTGGCG 2052  
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QY 2053 GCTCTGGGAGGAGTTTAAACGAGCAGCGAGAGTGATACCCACGACAGTGGAGCAGCTG 2112  
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QY 2113 TACATACCTGCTGGATGAGAAATGATAATACAAATGGAATCCACCAAGACTGAAAT 2172  
Db 705 TyrValProGlyTyrValGluAsnGlyLysIleIleLeuAsnProArgProGluVal 724  
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QY 2233 TTTGTGGCTTCTGATGTC---CCAAATGCTCCATACCTGATCTCTCCACCTGGCCAA 2289  
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QY 2290 ATCCCGACCTGAAGCGGAAATTCACGGGGGAGCTCTCATTAATCTGATTTGGACGT 2349  
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QY 2350 CTGGGGATGATTATGACCATGGAACACT 2379  
Db 784 ProGlyAsnValLeuAspLysGlyLysAla 793

## RESULT 11

US-09-193-562D-12  
; Sequence 12, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedict U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922

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; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 12
; LENGTH: 821
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-12

Alignment Scores:
Pred. No.: 1,02e-176 Length: 821
Score: 2125.00 Matches: 425
Percent Similarity: 69.62% Conservative: 124
Best Local Similarity: 53.80% Mismatches: 225
Query Match: 39,50% Indels: 16
DB: Gaps: 11

US-09-049-696-20 (1-2983) x US-09-193-562D-12 (1-821)
QY 46 GTGTTTCATCTTTCATCTTCCACCTCTTAGAAGGGCCCTCAGTAATTCATCTCAGCTG 105
DB 8 IleLeuLeuThrLeuHisLeuLeuProGly--MetLysSerSerMetValAsnLeu 26
QY 106 AACACAATGGCTATGAGGCATTTGCTGTCGAATCGACCCCAATGTCGACAGATGAA 165
DB 27 IleAsnAsnGlyTyrAspGlyIleValIleAlaIleAsnProSerValProGluAspGlu 46
QY 166 ACACCTCATTCACAATAAGGACATGTCGCCAGGCATCTCTGTCATCTGTTGAAGCT 225
DB 47 LysLeuIleGluAsnIleLysGluMetValThrGluAlaSerThrTyrLeuPheHisAla 66
QY 226 ACAGGAAGCGATTTTATTTCAAAATGTCGATTTTCATTTGATTCCTGAAACATGGAAGACA 285
DB 67 ThrLysArgArgValTyrPheArgAsnValSerIleLeuIleProMetThrTrpLysSer 86
QY 286 AAGGTGACTATGTGAGACAAATCTGAGACCTACAAATGCTGAATTTCTGTTGCT 345
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QY 346 GAGTCTACTCTCCAGTAATGATCAACCTACACTGACGACATGGCACTGTGGAGAG 405
DB 107 AsnProTyrLeuLysTyrGlyAspAspProTyrThrLeuGlnTyrGlyArgCysGlyGlu 126
QY 406 AAGGTGAAAGGATCCACCTCCTCTGATTTTCATTCAGGAGGAAAAAGTAGCTGAATAT 465
DB 127 LysGlyLysTyrIleHisPheThrProAsnPheLeuLeuThrAsnAsnPheHisIleTyr 146
QY 466 GGACCAAGGTAGGGCATTTGTCATGATGAGTGGGCTCATCTACGATGGGGAGTATTTGAC 525
DB 147 GlySerArgGlyArgValPheValHisGluTyrAlaHisLeuArgTrpGlyIlePheAsp 166
QY 526 GAGTACAATATGATGAGAAATCTACTATCC---AATGGAAGATACACAGCAGTAAGA 582
DB 167 GluTyrAsnValAspGlnProPheTyrIleSerArgLysAsnThrIleGluAlaThrArg 186
QY 583 TGTTGACGAGGTATTACTGGTCAATAGTAGTA---AAGAAGTGTGAGGGAGCGAGCTGT 619
DB 187 CysSerThrHisIleThrGlyIleAsnValValPheLysLysCysProGlyGlySerCys 206
QY 640 TACACAAAGATGCATTCATTAAGTAACAGCAGCTCTATGAAAGAGATGTGAGTTT 699
DB 207 IleThrSerLeuLysCysArgAspSerGlnThrGlyLeuTyrGluAlaLysCysThrPhe 226
QY 700 GTTCTCCATCCCGCAGAGAGAGGCTTCTATATGTTTGGCAACATGTTGATTTCT 759
DB 227 LeuProLysLysSerGlnThrAlaLysGluSerIleMetPheMetProSerLeuHisSer 246
QY 760 ATAGTTGAATTTCTGTACAGAAACAAACCAAGAGAGCTCCAAACAGCAAAATCAA 819
DB 247 ValThrGluPheCysThrGluLysThrHisAsnThrGluAlaProAsnLeuGlnAsnLys 266
QY 820 AAATGCAATCTCCGAGCACATGGGAAGTAGTCCGTGATTTCTGAGGACTTTAAGAAACC 879

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DB 267 MetCysAsnGlyLysSerThrTrpAspValIleMetAsnSerValAspPheGlnAsnThr 286
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DB 287 SerProMetThrGluMetAsnProProThrHisProThrPheSerLeuLeuLysSerLys 306
QY 934 CAAAGAATTTGTGTTAGTCTCTTCAAAATCTGGAAGCATGCGCAGCTGGTAACCCCTC 993
DB 307 GlnArgValValCysLeuValLeuAspLysSerGlySerMetSerAlaGluAspArgLeu 326
QY 994 AATCGACTGAATCAACAGCCAGCCAGCTTTCTCTGTCGACAGACTGTCAGTGGGTCTCG 1053
DB 327 PheGlnMetAsnGlnAlaGluLeuTyrLeuIleGlnValIleGlyLysGlySerLeu 346
QY 1054 GTTGGGATGTCACATTTGACAGCTGCTGCCATGTGTACAAAGTGAACATCATACAGATAAAC 1113
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QY 1114 AGTGGCAGTGACAGGACACACTCGCCAAAGATTAATCTGTCAGCAGCTTTCAGAGGGAGC 1173
DB 367 AspAspAsnValTyrGlnLysIleThrAlaLysLeuProGlnValAlaAsnGlyGlyThr 386
QY 1174 TCATCTGCGAGCGGCTTCGATCGCATTT---ACTGTGATTAGGAAGAAATATCCAAT 1230
DB 387 SerIleCysArgGlyLeuLysAlaGlyPheGlnAlaIleIleHisSerAspGlnSerThr 406
QY 1231 GATGATCTGAAATTTGCTGCTGCGATGGGAGGACAAACACTATAATAGTGGTCTCTT 1290
DB 407 SerGlySerGluIleIleLeuLeuThrAspGlyGluAspAsnGluIleAsnSerCysPhe 426
QY 1291 AACGAGGTCAAAACAAAGTGTGCTCATTCACACAGCTGCTTTGGGGCCCTCTGCAGCT 1350
DB 427 GluAspValLysArgSerGlyAlaIleIleHisThrIleAlaLeuGlyProSerAlaAla 446
QY 1351 CAAGAACTAGAGGAGCTGTCCAAATATGACAGAGGTTTACAGACATATGCTTCAGATCAA 1410
DB 447 LysGluLeuGluThrLysSerAsnMetThrGlyGlyTyrArgPheAlaAsnLysAsp 466
QY 1411 GTTCAGAACAAATGGCTCATTCATGCTTTTGGGCCCTTTTCATCAGGAATAGGAGTGT 1470
DB 467 Ile-----ThrGlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIle 484
QY 1471 TCTCAGCGCTCCATCCAGCTTGAAGATTAAGGATTAACCTCCAGAACAGCAGCTGATG 1530
DB 485 ThrGlnGlnAlaIleGlnLeuGluSerLysAlaLeuLysIleThrGlyArgLysArgVal 504
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DB 505 AsnGlyThrValProValAspSerThrValGlyAsnAspThrPhePheValThrTrp 524
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DB 525 ThrIleGlnLysProGluIleValLeuGlnAspProLysGlyLysLysTyrLysThrSer 544
QY 1645 GCCTTTGTAGTCGACAAA---AACACCAAAATGGCTACCTCCAAATCCAGCAGCTTGTCT 1701
DB 545 AspPheLysGluAspLysLeuAsnIleArgSerAlaArgLeuGlnIleProGlyIleAla 564
QY 1702 AAGTTGGCAGCTTGGAAATACAGTCTG-----CAAGCAAGCTCAAAACCTTGACC 1752
DB 565 GluThrGlyThrTrpThrTyrSerLeuLeuAsnAsnHisAlaSerSerGlnMetLeuThr 584
QY 1753 CTGACTGTGCTCCCGCTCGCTCCAAATGCTACTGCTGCTCCCAATTACAGTACTTCCAAA 1812
DB 585 ValThrValThrArgAlaArgSerProThrIleProProValIleAlaThrAlaHis 604
QY 1813 AGGAACAGGACACAGCAAAATTCACGAGCTCTGGTAGTTTATGCAATATTCGCCAA 1872
DB 605 MetSerGlnHisThrAlaHisTyrProSerProMetIleValTyrAlaGlnValSerGln 624
QY 1873 GGAGCTCTCCCAATTTCTCAGGGCCAGTGTCAAGCCCTGATTTGAATCAGTGAATGAAAA 1932
DB 1932

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Db 625 GlyPheLeuProValLeuGlyIleSerValIleAlaIleIleGluThrGluAspGlyHis 644  
QY 1933 ACAGTTACTCTGGAATCTACTGATATGAGCAGAGTGTCTACTACTAAGGATCACGGT 1992  
Db 645 GlnValThrLeuGluLeuTrpAspGlnGlyAlaGlyArgAspThrValLysAsnAspGly 664  
QY 1993 GTCTACTCAAGTATTTACAACTTATGACACGAATGTTAGATACAGTGTAAAGTGGCG 2052  
Db 665 IleTyrSerArgTyrPheThrAspTyrTyrGlyAsnGlyArgTyrSerLeuLysValHis 684  
QY 2053 GCTCTGGAGGAGTTAACACGACGAGAGAGAGTGTATACCCACGAGTGGAGCAGCTG 2112  
Db 685 AlaGlnAlaArgAsnAsnThrAlaArgLeuAsnLeuArgGlnProGlnAsnLysValLeu 704  
QY 2113 TACATACCTGGCTGATGAGATGATGAAATACAAATGGAATCCACCAAGACCTGAAAT 2172  
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QY 2173 AATAAGGATGATGTTCAACACACGAAGTGTGTTTCAGCAGAACATCTCTCGGGAGGCTCA 2232  
Db 725 LysAspAspLeuAlaLysAlaLysIleGluAspPheSerArgLeuThrSerGlyGlySer 744  
QY 2233 TTGTGGCTTCGATGTC---CCAAATGCTCCATACCTGATCTCTCCACCTGGCCAA 2289  
Db 745 PheThrValSerGlyAlaProProProGlyAsnHisProSerValPheProProSerLys 764  
QY 2290 ATCCCGACCTCAAGCGGGAATTCACGGGGCAGTCTCTAATCTGACTTGGACAGCT 2349  
Db 765 IleThrAspLeuGluAlaLysPheLys---GluAspTyrIleGlnLeuSerTrpThrAla 783  
QY 2350 CCTGGGATGATGATACCATCGAACAGCT 2379  
Db 784 ProGlyAsnValLeuAspLysGlyLysAla 793

## RESULT 12

US-09-643-597-161  
; Sequence 161, Application US/09643597  
; Patent No. 6426072

## GENERAL INFORMATION:

; APPLICANT: Wang, Tongtong  
; APPLICANT: Fan, Liqun  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Hosken, Nancy  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Li, Samuel X.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Skeiky, Yasir A.W.  
; APPLICANT: Henderson, Robert A.  
; APPLICANT: McNeill, Patricia D.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; FILE REFERENCE: 210121.455C11  
; CURRENT APPLICATION NUMBER: US/09/643,597  
; CURRENT FILING DATE: 2000-08-21  
; NUMBER OF SEQ ID NOS: 369  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 161  
; LENGTH: 943  
; TYPE: PRT  
; ORGANISM: Homo sapien  
US-09-643-597-161

## Alignment Scores:

Pred. No.:	1.98e-165	Length:	943
Score:	1996.00	Matches:	417
Percent Similarity:	63.26%	Conservative:	165
Best Local Similarity:	45.33%	Mismatches:	282
Query Match:	37.10%	Indels:	56
Db:	4	Gaps:	21

US-09-049-696-20 (1-2983) x US-09-643-597-161 (1-943)

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QY 64 CACCTTCTAGAGGGGCCCTGAGTAATTCATC-----ATTGAGCTG 105  
Db ValAlaLeuSerSerGluLeuProPheLeuGlyAlaGlyValGlnLeu 35  
QY 106 AACACAATGCTGTGAAGGATTCGTCTGCAATCGACCCCAATGTGCACAAAGATGAA 165  
Db GlnAspAsnGlyTyrAsnGlyLeuLeuIleAlaLeuProGlnValProGlnAsnGln 55  
QY 166 ACATCTATTCAACAAATAAGACATGTGACCCAGGACCTCTCTATCTGTGTTGAAGCT 225  
Db AsnLeuIleSerAsnIleLysGluMetIleThrGluAlaSerPheTyrLeuPheAsnAla 75  
QY 226 ACAGGAAGCAGATTTATTTCAAATAATGTTGCCATTTTGTATTCCTGAAACATGGAAGCA 285  
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QY 286 AAGGCTGACTATGTGAGACCAAACTTGCAGACCTACAAAATGCTGATGTTCTGTGCT 345  
Db Asn---AsnAsnSerLysIleLysGlnGluSerTyrGluLysAlaAsnValIleValThr 114  
QY 346 GAGTCTACTCTCCAGGTAATGATGAACCTACACTGAGCAGATCGGCAACTGTGAGAG 405  
Db AspTrpTyrGlyAlaHisGlyAspAspProTyrThrLeuGlnTyrArgGlyCysGlyLys 134  
QY 406 AAGGTGAAAGATCCACTCCTCTGATTTTCATTTGAGGAGGAGGAGGAGGAGGAGGAG 462  
Db GluGlyLysTyrIleHisPheThrProAsnPheLeuLeuAsnAspAsnLeuThrAlaGly 154  
QY 463 TATGGACCAACAAGGTAGGGCATTTGTCATGATGAGTGGCTCATCTACGATGGGAGTATTT 522  
Db TyrGlySerArgGlyArgValPheValHisGluTrpAlaHisLeuArgTrpGlyValPhe 174  
QY 523 GACGAGTACAATAATGATGAGAAATTTCACTATCC---AATGGAAGATAACAAGCAGTA 579  
Db AspGluTyrAsnAsnAspLysProPheTyrIleAsnGlyGlnAsnGlnLysValThr 194  
QY 580 AGATGTTGACGAGGTATTACTGTTACAAATGTAGTAAAGAGTGTACAGGAGGAGTGT 639  
Db ArgCysSerSerAspIleThrGlyIlePheVal-----CysGluLysGlyProCys 211  
QY 640 TACACCAAAGATGCACATTCATTAAGTAACAGACGCTCTATGAAAGAGGAGTGTGAGTT 699  
Db ProGlnGluAsnCysIleIleSerLys-----LeuPheLysGluGlyCysThrPhe 228  
QY 700 GTTCTCCAATCCCGCAGACGAGAGAGGCTTCTATAATGTTTGCACAAACATGTTGATCT 759  
Db IleTyrAsnSerThrGlnAsnAlaThrAlaSerIleMetPheMetGlnSerLeuSerSer 248  
QY 760 ATAGTTGAATTTCTGTACAGAACAAACCAACAAGAGCTTCCAAACAGCAAAATCAA 819  
Db ValValGluPheCysAsnAlaSerThrHisAsnGlnGluAlaProAsnLeuGlnAsnGln 268  
QY 820 AAATGCAATCTCCGAGCAGCATGGAGTGTATCCGTGATCTCTGAGGAGCTTTAAGAAACC 879  
Db MetCysSerLeuArgSerAlaTrpAspValIleThrAspSerAlaAspPheHisSer 288  
QY 880 ACTCCTATG-----ACAACACAGCCACCAATCCACCTCTCTCATTTGCTGAGATTTGA 933  
Db PheProMetAsnGlyThrGluLeuProProProThrPheSerLeuValGluAlaGly 308  
QY 934 CAAGAATTTGTTTGTAGTCTTTCAGCAAACTGGAAGCATGCGGACTGGTAACCGCTC 993  
Db AspLysValValCysLeuValLeuAspValSerSerLysMetAlaGluAlaAspArgLeu 328  
QY 994 AATCGACTGAATCAAGCAGGCGCAGCTTTTCTGCTGACAGACTTGTGAGTGGGCTCGG 1053  
Db LeuGlnLeuGlnGlnAlaGluPheTyrLeuMetGlnIleValGluIleHisThrPhe 348  
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QY      1225  CCAACTGATGGATCTGAATTGCTGCTGAGGATGGGAGACAACTATAAGTGG 1284
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QY      1405  GATCAAGTTCAGAACAAATGGCTCATTGATGCTTTTGGGCGCTTCATCAGGAATGGA 1464
Db      469  AspIleSerAsnSerAsnSerMetIleAspAlaPheSerArgIleSerSerGlyThr 488
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QY      1639  ---CAAGTGGCTTTAGTGGCAAAAACACCAAAATGGCTTACCTCCAAATCCAGGC 1695
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QY      1696  ATTGCTAAGTGGTGGCACTTGGAAATACAGTCTG-----CAACCAAGCTCACAACC 1746
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QY      1747  TTGACCTGACTGTACAGTCCGCTCGTCCATGCTACCTGCTCCATTTACAGTACT 1806
Db      589  LeuLysValThrValThrSerArgAlaSerAsnSerAlaValProProAlaThrVal 608
QY      1807  TCCAAAACCAACCAAGCACACAGCAAAATCCCGAGCCCTCTGTAGTTTATGCAATAT 1866
Db      609  AlaPheValGluArgAspSerLeuHisPheProHisProValMetIleTyrAlaAsn 628
QY      1867  CGCCAGGAGCTCCCAATTTCTCAGGCGCAGTGTACAGCCCTGATGAATCAGTGAAT 1926
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QY      1927  GGAAAACAGTTTACCTTGGAACTACTGGATATAGGAGCGGTGCTGATGCTACTAAGAT 1986
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QY      1987  GACGGTGTCTACTCAGGTATTTCAACAATTATGACACCAATGGTATACAGTGTAAA 2046
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QY      2101  -----AGTGGAGCACTGTACATACCTGCTGGATTTAGAAATGATGAATACAAATG 2154

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705 ProGlySerHisAlaMetTyrValProGlyTyrThrAlaAsnGlyAsnIleGlnMetAsn 724

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2215 ACATCTCTGGGAGGCTCATTTGTGGCTTCTGATGCTCCCAATGCTCCCATACCTGATCTC 2274

744 ValSerSerGlyGlySerPheSerValLeuGlyValProAlaGlyProHisProAspVal 763

2275 TTCCCACTGGCGCAATACACCGACTGAAGGCGGAAATTCACGGGGGAGTCTCATTAAT 2334

764 PheProProCysGlyIleIleAspLeuGluAla---ValLysValGluGluLeuThr 782

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783 LeuSerTrpThrAlaProGlyGluAspPheAspGlnGlyGlnAlaThrSerTyrGluIle 802

2395 CGAATAAGTACAGTATTCTTCTGATCTCAGACAGCAAGTTCATCAATCTCTTCAAGTGAAT 2454

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2515 AACATTACTTTTCAAAATGGCACAGAT----- 2541

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2542 ---CTTTTCTGCTATTTCAGGCTGTTGATAAGGTCGATCTGAAATCAGAAATATATCAAC 2598

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881 IleAlaGlnAlaProLeuPheIleProAsnSerAspPro---ValProAlaArgAsp 899

RESULT 13

US-09-480-884A-161

Sequence 161, Application US/09480884A

Patent No. 6482597

GENERAL INFORMATION:

APPLICANT: Wang, Tongtong

APPLICANT: Fan, Liqun

APPLICANT: Hosken, Nancy A.

APPLICANT: Kalos, Michael D.

APPLICANT: Fanger, Gary R.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY

TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER

FILE REFERENCE: 210121.455C6

CURRENT APPLICATION NUMBER: US/09/480,884A

CURRENT FILING DATE: 2001-08-27

NUMBER OF SEQ ID NOS: 330

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 161

LENGTH: 943

TYPE: PR

ORGANISM: Homo sapien

US-09-480-884A-161

Alignment Scores:

Pred. No.: 1,98e-165 Length: 943

Score: 1996.00 Matches: 417

Percent Similarity: 63.2% Conservatives: 165

Best Local Similarity: 45.3% Mismatches: 282

Query Match: 37.1% Indels: 56

DB: 4 Gaps: 21

US-09-049-696-20 (1-2983) x US-09-480-884A-161 (1-943)

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Db 20 -----ValAlaLeuSerSerGluLeuProPheLeuGlyAlaGlyValGlnLeu 35
QY 106 AACAAACAATGCTATGAAGGCATTGCTGTTGCAATCGACCCCAATGTGCCAAGATGAA 165
Db 36 GlnAspAsnGlyTyAsnGlyLeuLeuIleAlaIleAsnProGlnValProGluAsnGln 55
QY 166 ACATCTATTCAACAATAAAGACATGTGTGACCCAGGCATCTCTGTATGCTGTTGAAGCT 225
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QY 226 ACAGGAACCGATTATTTCAAAATGTTGCCATTGATTCCTGCAACATGGGAAGACA 285
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QY 286 AAGGCTGACTATGTGAGACCAAACTTGAGACCTACAAAATGCTGATGTTCTGTGCT 345
Db 96 Asn---AsnAsnSerLysIleLysGlnGluSerTyrGluLysAlaAsnValIleValThr 114
QY 346 GAGTCTACTCTCCAGGTAAATGATGAACCTACACTGACGACGATGGCAACTGTGGAGAG 405
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Db 155 TyrGlySerArgGlyArgValPheValHisGluTrpAlaHisLeuArgTrpGlyValPhe 174
QY 523 GACGAGTACAATAATGATGAGAAATCTTACTATCC---AATGGAAGATAACAAGCATPA 579
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Db 195 ArgCysSerSerAspIleThrGlyIlePheVal-----CysGluLysGlyProCys 211
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Db 229 IleTyrAsnSerThrGlnAsnAlaThrAlaSerIleMetPheMetGlnSerLeuSerSer 248
QY 760 ATAGTTGAATTCGTACAGAACCAAAACCAACCAAGAGCTCCAAACAGCAAAATCAA 819
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QY 820 AAATCAATCTCCGAGACATCGGAAGTGTATCCGCTGATTTCTGAGCAGCTTTAAGAAACC 879
Db 269 MetCysSerLeuArgSerAlaTrpAspValIleThrAspSerAlaAspPheHisSer 288
QY 880 ACTCTATG-----ACAAACAGCCACCAAAATCCACCTTCTCATTTGCTGCAGATTGGA 933
Db 289 PheProMetAsnGlyThrGluLeuProProProProThrPheSerLeuValGluAlaGly 308
QY 934 CAAGAATTTGCTGTTAGTCTCTGACAAATCTGGAAGCATGGCAGCTGGTAACGCCTC 993
Db 309 AspLysValValCysLeuValLeuAspValSerSerLysMetAlaGluAlaAspArgLeu 328
QY 994 AATCACTGAATCAACAGCCAGCCTTTTCTGCTGTCAGACAGATGTGAGTGGGCTCTGG 1053
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QY 1054 GTTGGATGCTGACATTTGACAGTGTGCTGCCCATGTACAAAGTGAATCATACAGATAAAC 1113
Db 349 ValGlyIleAlaSerPheAspSerLysGlyGluIleArgAlaGlnHisGlnIleAsn 368
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QY 1174 -----TTCATCTGCAGCGGGCTTCGATCGCGCATTTACTGTGATTAGGAAG---AAATAT 1224
Db 389 AspIleSerIleCysSerGlyLeuLysLysGlyPheGluValValGluLysLeuAsnGly 408
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Db 409 LysAlaTyrGlySerValMetIleLeuValThrSerGlyAspAspLysLeuLeuGlyAsn 428
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QY 1585 ACCTGG---ACACGCGACCTCCCAAAATCCTTCTCTGGGATCCCGTGGCAGTGACAGAG--- 1638
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QY 1639 ---CAAGGTGCTGTAGTGGACAAAAACCAAAATGGCGCTACTCCAAATCCAGCC 1695
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Db 569 ThrAlaLysProGlyHisTrpThrTyrThrLeuAsnAsnThrHisSerLeuGlnAla 588
QY 1747 TTGACCTGACTGTCACGTCCTCCGTCGTCCTCAATGTCATCCCTCCATTCACAGTACT 1806
Db 589 LeuLysValThrValThrSerArgAlaSerAsnSerAlaValProProAlaThrValGlu 608
QY 1807 TCCAAAACGAAACAGGACACACGCAAAATCCCGACCTCTGCTAGTTTATCAAAATATT 1866
Db 609 AlaPheValGluArgAspSerLeuHisPheProHisProValMetIleTyrAlaAsnVal 628
QY 1867 CGCCAAAGAGCCTCCCAATTTCTCAGGCGCAGTGTGCAGCCCTGATTTGAATCAGTGAAT 1926
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QY 1927 GAAAAACAGTTACTCTTGGAACTACTGGAATATGAGCAGGCTGCTGATGCTACTAAGGAT 1986
Db 649 GlyAspProValThrLeuArgLeuLeuAspAspGlyAlaGlyAlaAspValIleLysAsn 668
QY 1987 GACGTGTCTACTCAAGGTATTTCACAACTTATGACGAAATGGTAGATACAGTGTAAAA 2046
Db 669 AspGlyIleTyrSerArgTyrPhePheSerPheAlaAlaAsnGlyArgTyrSerLeuLys 688
QY 2047 GTGCGGGCTCTGGGAGGAGTTAAACGACGACGAGAGAGTGAATACCCAGCAG----- 2100
Db 689 ValHis-----ValAsnHisSerProSerIleSerThrProAlaHisSerIle 704
QY 2101 -----AGTGGAGCACTGTACATCTGCTGGATTGAGATGATGAATACAAATGGAAT 2154
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369 SerAsnAspArgLysLeuLeuValSerTyrLeuProThrThrValSerAlaLysThr 388
QY 1174 -----TCATCTGCAGCGGCTTCGATCGGCATTACTGTGATAGGAG---AAATAT 1224
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
389 AspIleSerIleCysSerGlyLeuLysGlyPheGluValValGluLysLeuAsnGly 408
QY 1225 CCAACTGATGATCGAATTCGTGCTGCGGATGGGAGAGACAACACTAATAGTGG 1284
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409 LysAlaTyrGlySerValMetIleLeuValThrSerGlyAspLysLeuLeuGlyAsn 428
QY 1285 TGTCTTAAACGAGTCAAAAGTGGTGCATCATCCACACAGTGCCTTTGGGGCCCTCT 1344
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429 CysLeuProThrValLeuSerGlySerThrIleHisSerIleAlaLeuGlySerSer 448
QY 1345 GCAGCTCAAGAACTGAGAGAGTGTCCAAAATGACAGAGGTTTACACACATATGCTTCA 1404
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449 AlaAlaProAsnLeuGluLeuSerArgLeuThrGlyGlyLeuLysPheValPro 468
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469 AspIleSerAsnSerAsnMetIleAspAlaPheSerArgIleSerGlyThrGly 488
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489 AspIlePheGlnHisIleGlnLeuGluSerThrGlyGluAsnValLysPheHis 508
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Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
509 GlnLeuLysAsnThrValThrValAspAsnThrValGlyAsnAspThrMetPheLeuVal 528
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QY 1639 ---CAAGGTGGCTTGTAGTGACAAAACACCAAAATGGCTACTCCAAATCCAGCG 1695
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QY 1696 ATGTGTAAGTTGGCACTTGGAAATACAGTCTG-----CAAGCAAGCTCACAAAACC 1746
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QY 1747 TTGACCTGACTGTCACGTCGCGTGGTCCCATGCTACCTGCTCCCAATTCAGTACT 1806
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589 LeuLysValThrValThrSerArgAlaSerAsnSerAlaValProAlaThrValGlu 608
QY 1807 TCCAAAACGAAACAGACACACCAAAATTCGCCAGCCCTCTGCTAGTTTATCAAAATAT 1866
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
609 AlaPheValGluArgAspSerLeuHisPheProHisProValMetIleTyrAlaAsnVal 628
QY 1867 CGCCAAGAGCCTCCCAATTCAGGCGCATGTCACAGCCCTGATGAATCAGTGAAT 1926
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629 LysGlnGlyPheTyrProIleLeuAsnAlaThrValThrAlaThrValGluProGluThr 648
QY 1927 GCAAAAACAGTTACTTGCAGTACTGATGATGAGCGAGTCTGCTACTACTAGGAT 1986
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649 GlyAspProValThrLeuArgLeuLeuAspGlyAlaGlyAlaAspValIleLysAsn 668
QY 1987 GACGGTGTCTACTCAAGGTATTTCACACTTATGACAGAAATGGTAGATACAGTGTAAA 2046
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669 AspGlyIleTyrSerArgTyrPhePheSerPheAlaAlaAsnGlyArgTyrSerLeuLys 688
QY 2047 GTGCGGGCTCTGGGAGGAGTTAACCGACGACCGAGAGTGAATACCCGACGAG----- 2100
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
689 ValHis-----ValAsnHisSerProSerIleSerThrProAlaHisSerIle 704
QY 2101 -----AGTGGAGCACTGTACATACATCGCTGGATTGAGAAATGCAATCAATGGAAT 2154
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
705 ProGlySerHisAlaMetTyrValProGlyTyrThrAlaAsnGlyAsnIleGlnMetAsn 724
QY 2155 CCACCAAGACCTGAAATTAATAGGATGATGTTTCAACACAGCAAGTGTGTTTCAGCAGA 2214
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Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
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QY 2215 ACATCTCGGAGGCTCATTTGTGCTGATGTCCTCCAAATGCTCCCATCTCATCTC 2274
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744 ValSerSerGlyGlySerPheSerValLeuGlyValProAlaGlyProHisProAspVal 763
QY 2275 TTCCACCTGCGCAAAATCACGACCTGAAGCGGAAATTCACGGGGCAGTCTCAATTAAT 2334
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
764 PheProProCysLysIleIleAspLeuGluAla---ValLysValGluGluLeuThr 782
QY 2335 CTGACTTGGACAGCTCTCGGGATGATTATGACCATGGAACAGCTCACAAAGTATATCAT 2394
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
783 LeuSerTrpThrAlaProGlyGluAspPheAspGlnGlyGlnAlaThrSerTyrGluIle 802
QY 2395 CGAATAAGTACAGTATTCTTGTATCTCAGACACAGTTCATGAATCTCTTCAAGTGAT 2454
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803 ArgMetSerLysSerLeuGlnAsnIleGlnAspPheAsnAsnAlaIleLeuValAsn 822
QY 2455 ACTACTGCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTTGTAAACACAGAA 2514
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823 ThrSerLysArgAsnProGlnGlnAlaGlyIleArgGluIlePheThrPheSerProGln 842
QY 2515 AACATTACTTTGAAATGGCACAGAT----- 2541
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
843 IleSerThr-----AsnGlyProGluHisGlnProAsnGlyGluThrHisGluSerHis 860
QY 2542 ---CTTTTCATGCTATTTCAGGCTGTTGATAAGTGCATCTCAAAATCAGAAATATCCAC 2598
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861 ArgIleTyrValAlaIleArgAlaMetAspArgAsnSerLeuGlnSerAlaValSerAsn 880
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Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
881 IleAlaGlnAlaProLeuPheIleProAsnSerAspPro---ValProAlaArgAsp 899

RESULT 15
US-09-606-421B-161
; Sequence 161, Application US/09606421B
; Patent No. 6531315
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Lihun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hoeken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.45C9
; CURRENT APPLICATION NUMBER: US/09/606,421B
; CURRENT FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 358
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 161
; LENGTH: 943
; TYPE: PRN
; ORGANISM: Homo sapien
US-09-606-421B-161

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Score: 63.26% Conservative: 165
Best Local Similarity: 45.33% Mismatches: 282
Query Match: 37.10% Indels: 56
DB: 4 Gaps: 21

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Job time : 122.521 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: April 24, 2004, 04:05:52 ; Search time 900.673 Seconds  
(without alignments)  
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Title: US-09-049-696-19  
Perfect score: 1683  
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Scoring table: IDENTITY NUC

Gapop 10\_0 , Gapext 1.0

Searched: 2907579 seqs, 2254313464 residues

Total number of hits satisfying chosen parameters: 5815158

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications NA.\*

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- 2: /cgn2\_6/prodata/2/pubpna/US07\_PUBCOMB.seq.\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	1683	100.0	3111	15	US-10-235-994-25
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6	1676.6	99.6	3007	15	US-10-055-412B-27
7	1671	99.3	3311	9	US-09-922-217-1056
8	1671	99.3	3311	9	US-09-833-263-1056
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16	1671	99.3	3311	15	US-10-393-567-46	Sequence 46, Appl
17	1671	99.3	3311	15	US-10-393-567-47	Sequence 47, Appl
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19	1671	99.3	3311	15	US-10-394-087-12	Sequence 12, Appl
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23	1526.8	90.7	2867	15	US-10-106-698-351	Sequence 351, App
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32	673.8	40.0	3169	9	US-09-981-353-53	Sequence 53, Appl
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38	667.6	39.7	3199	13	US-10-276-774-993	Sequence 993, App
39	667.6	39.7	3265	9	US-09-989-722-378	Sequence 378, App
40	667.6	39.7	3265	9	US-09-989-723-378	Sequence 378, App
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ALIGNMENTS

RESULT 1

US-10-106-698-2111  
; Sequence 2111, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:

; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides

; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698

; CURRENT FILING DATE: 2002-03-27

; PRIOR APPLICATION NUMBER: PCT/US00/26524

; PRIOR FILING DATE: 2000-09-28

; PRIOR APPLICATION NUMBER: US 60/157,137

; PRIOR FILING DATE: 1999-09-29

; PRIOR APPLICATION NUMBER: US 60/163,280

; PRIOR FILING DATE: 1999-11-03

; NUMBER OF SEQ ID NOS: 8564

; SOFTWARE: Patent in Ver. 3.0

; SEQ ID NO 2111

; LENGTH: 3109

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-106-698-2111

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Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1683; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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; Patent No. US20010025098A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Kaser, Matthew R.  
; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
; FILE REFERENCE: PF-0489-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823.356  
; CURRENT FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/039,307  
; PRIOR FILING DATE: 1998 March 13  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PERL Program  
; SEQ ID NO 25  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775  
US-09-823-356-25

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Best Local Similarity 100.0%; Pred. No. 0;  
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QY 1561 GGGCGATATCAATGATATATAGTACATTTTATCTAAATGTATTTTCTCTGAGGGCGAT 1620  
Db 2870 GGGCGATATCAATGATATATAGTACATTTTATCTAAATGTATTTTCTCTGAGGGCGAT 2929  
QY 1621 ATACTAAATGTATTTTGTAGACTTCTCTGAGGGCGATATAAATAAATAAATAAATAA 1680  
Db 2930 ATACTAAATGTATTTTGTAGACTTCTCTGAGGGCGATATAAATAAATAAATAAATAA 2989  
QY 1681 GTA 1683  
Db 2990 GTA 2992

## RESULT 3

US-09-981-353-191  
; Sequence 191, Application US/09981353  
; Patent No. US20020160382A1  
; GENERAL INFORMATION:  
; APPLICANT: Lasek, Amy W.  
; APPLICANT: Jones, David A.  
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
; FILE REFERENCE: PA-0038 US  
; CURRENT APPLICATION NUMBER: US/09/981,353  
; CURRENT FILING DATE: 2001-10-11  
; NUMBER OF SEQ ID NOS: 194  
; SOFTWARE: PERL Program  
; SEQ ID NO 191  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CB1  
US-09-981-353-191

Query Match 100.0%; Score 1683; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1683; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AACAAAGTGGTCCCATCATCCACAGTCGCTTTTGGGGCCCTCTGCAGCTCAAGACTAG 60  
Db 1310 AACAAAGTGGTCCCATCATCCACAGTCGCTTTTGGGGCCCTCTGCAGCTCAAGACTAG 1369  
QY 61 AGGAGCTGTCCAAATGACAGGAGGTTTACAGACATATGCTTTCAGATCAAGTTTCAGAA 120

1370 AGGAGCTGTCCTCAAAATGACAGGAGTTCAGACATATGCTTCAGATCAAGTTGAGAACA 1429  
121 ATGGCTCATGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGCTCTCAGCGCT 180  
1430 ATGGCTCATGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGCTCTCAGCGCT 1489  
181 CCATCCAGCTGAGAGTAAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGCCACAG 240  
1490 CCATCCAGCTGAGAGTAAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGCCACAG 1549  
241 TGATCGTGACAGCACCCTGGGAAAGGACATTTGTTCTTATCACCCTGGACCAACGCACG 300  
1550 TGATCGTGACAGCACCCTGGGAAAGGACATTTGTTCTTATCACCCTGGACCAACGCACG 1609  
301 CTCCTCAATCTCTCTGGGATCCAGTGGACAGAACGAGGTGGCTTTGTAGTGGACA 360  
1610 CTCCTCAATCTCTCTGGGATCCAGTGGACAGAACGAGGTGGCTTTGTAGTGGACA 1669  
361 AAAACACCAAAATGGCTTACCTCCAAATCCAGGCAATGCTTAAGTTGGCACTTGGAAAT 420  
1670 AAAACACCAAAATGGCTTACCTCCAAATCCAGGCAATGCTTAAGTTGGCACTTGGAAAT 1729  
421 ACAGCTCTGCAAGCAAGCTCACAAACCTTGACCCCTGACTGTCACTGCTCCGCTGCTCAATG 480  
1730 ACAGCTCTGCAAGCAAGCTCACAAACCTTGACCCCTGACTGTCACTGCTCCGCTGCTCAATG 1789  
481 CTACCTGCTGCTCAATTAAGTACAGTGTCTTCAAAACGAAACAGGACACGACAAATTCGCCA 540  
1790 CTACCTGCTGCTCAATTAAGTACAGTGTCTTCAAAACGAAACAGGACACGACAAATTCGCCA 1849  
541 GGCCTCTGCTGCTTATGCAATATTCGCAAGGAGCTCCCAATTCCTCAGGCGCAGTG 600  
1850 GGCCTCTGCTGCTTATGCAATATTCGCAAGGAGCTCCCAATTCCTCAGGCGCAGTG 1909  
601 TCACAGCCCTGATGTAATCAGTGAATGGAAACAGTTTACCTTGGAACTTACTTGGATAATG 660  
1910 TCACAGCCCTGATGTAATCAGTGAATGGAAACAGTTTACCTTGGAACTTACTTGGATAATG 1969  
661 GAGAGGTGCTGATGCTACTAAGATGAGCGGTGTCTACTCAAGGTATTTTCAACATTTATG 720  
1970 GAGAGGTGCTGATGCTACTAAGATGAGCGGTGTCTACTCAAGGTATTTTCAACATTTATG 2029  
721 ACACGAATGGTATACAGTGTAAAGTCCGGCTCTGGAGGAGTTAAGCAGCAGAC 780  
2030 ACACGAATGGTATACAGTGTAAAGTCCGGCTCTGGAGGAGTTAAGCAGCAGAC 2089  
781 GGAGAGTGATACCCAGCAGAGTGGAGCACTGTACATACCTGGCTGGATTGAGAAATGATG 840  
2090 GGAGAGTGATACCCAGCAGAGTGGAGCACTGTACATACCTGGCTGGATTGAGAAATGATG 2149  
841 AAATCAATGGAAATCCACAGACCTGAAATTAATGAAGTATGTTTCAACACAGCAAG 900  
2150 AAATCAATGGAAATCCACAGACCTGAAATTAATGAAGTATGTTTCAACACAGCAAG 2209  
901 TGTGTTTTCAGCAGACATCTCTGGAGGCTCATTTTGTGCTTCTGATGTCCTCAAAATGCTC 960  
2210 TGTGTTTTCAGCAGACATCTCTGGAGGCTCATTTTGTGCTTCTGATGTCCTCAAAATGCTC 2269  
961 CCATACCTGATCTCTTCCACCTGGCCAAATCACCAGCTGAAAGCGGAAATTCACGGGG 1020  
2270 CCATACCTGATCTCTTCCACCTGGCCAAATCACCAGCTGAAAGCGGAAATTCACGGGG 2329  
1021 GGAGTCTATTAATCTGATCTGACAGCTCTCTGGGATGATTAATGACCATGAAACAGCTC 1080  
2330 GGAGTCTATTAATCTGATCTGACAGCTCTCTGGGATGATTAATGACCATGAAACAGCTC 2389  
1081 ACAAGTATATCATTCGAATAGTACAGTATTTCTTGATCTCAGACAGCAAGTTCAATGAAT 1140  
2390 ACAAGTATATCATTCGAATAGTACAGTATTTCTTGATCTCAGACAGCAAGTTCAATGAAT 2449  
1141 CTCTTCAAGTGAATATCTACTGCTCTCATCCCAAGGAAGCACTCTGAGGAAGTCTTTT 1200

2450 CTCTTCAAGTGAATCTACTGCTCTCATCCCAAGGAAGCAACTCTCAGGAAGTCTTTT 2509  
1201 TGTTTAAACCAAGAAACATTAATCTTTTGAATAATGGCAGAGATCTTTTCAATGCTATTCAGG 1260  
2510 TGTTTAAACCAAGAAACATTAATCTTTTGAATAATGGCAGAGATCTTTTCAATGCTATTCAGG 2569  
1261 CTGTTGATAAGGTGATCTGAAATCAAGAAATATCCAAATTTGCACGAGTATCTTTGTTTA 1320  
2570 CTGTTGATAAGGTGATCTGAAATCAAGAAATATCCAAATTTGCACGAGTATCTTTGTTTA 2629  
1321 TTCCTCCACAGACTCCGCCACAGACACCTAGTCTCTGATGAAACGCTCTGCTCTCTGCTCTA 1380  
2630 TTCCTCCACAGACTCCGCCACAGACACCTAGTCTCTGATGAAACGCTCTGCTCTCTGCTCTA 2689  
1381 ATATTCTATCAACAGACCACTCTCTGCAATTTCAATTTTAAATTTATGTGGAAGTGA 1440  
2690 ATATTCTATCAACAGACCACTCTCTGCAATTTCAATTTTAAATTTATGTGGAAGTGA 2749  
1441 TAGGAGAACTCAGCTGTCAATAGCTAGGCTGCAATTTTGTCTAGATAAATAAATAA 1500  
2750 TAGGAGAACTCAGCTGTCAATAGCTAGGCTGCAATTTTGTCTAGATAAATAAATAA 2809  
1501 TCATTCTCTCTTTTGTGATTAATAAATTTTCTAAATTTTATAGTATTTTCTGCTAGG 1560  
2810 TCATTCTCTCTTTTGTGATTAATAAATTTTCTAAATTTTATAGTATTTTCTGCTAGG 2869  
1561 GGGCGATATCAATGATATATAGTATACATTTTATCTAAATTTTCTGCTAGGCGCAT 1620  
2870 GGGCGATATCAATGATATATAGTATACATTTTATCTAAATTTTCTGCTAGGCGCAT 2929  
1621 ATACTAAATGATTTTATAGCTTCTGCTAGGCGCATTTAAATAAATAAATAAATAA 1680  
2930 ATACTAAATGATTTTATAGCTTCTGCTAGGCGCATTTAAATAAATAAATAAATAA 2989  
1681 GTA 1683  
2990 GTA 2992

RESULT 4

US-10-235-994-25  
; Sequence 25, Application US/10235994  
; Publication No. US20030101002A1  
; GENERAL INFORMATION:  
; APPLICANT: Bartha, Gabor  
; APPLICANT: Walker, Michael  
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS  
; FILE REFERENCE: ICYTP012  
; CURRENT APPLICATION NUMBER: US/10/235,994  
; CURRENT FILING DATE: 2002-09-04  
; PRIOR APPLICATION NUMBER: US/10/003,608  
; PRIOR FILING DATE: 2001-11-01  
; PRIOR APPLICATION NUMBER: 60/245,081  
; PRIOR FILING DATE: 2000-11-01  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 25  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Human  
US-10-235-994-25

Query Match 100.0%; Score 1683; DB 15; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1683; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 AACAAAGTGGTGGCCATCATCCACAGTCGGCTTTTGGGGCCCTCTCAGCTCAAGAACTAG 60  
DB 1310 AACAAAGTGGTGGCCATCATCCACAGTCGGCTTTTGGGGCCCTCTCAGCTCAAGAACTAG 1369  
QY 61 AGGAGCTCTCAAAATGACAGAGGTTTACAGACATATGCTTTCAGATCAAGTTCAGAAC 120  
DB 1370 AGGAGCTCTCAAAATGACAGAGGTTTACAGACATATGCTTTCAGATCAAGTTCAGAAC 1429

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QY 121 ATGGCCCTCATGATGCTTTTGGGCCCCCTTTTCATCAGGAAATGAGAGTGCTGTCTCTCAGCGCT 180
Db 1430 ATGGCCCTCATGATGCTTTTGGGCCCCCTTTTCATCAGGAAATGAGAGTGCTGTCTCTCAGCGCT 1489
QY 181 CCATCCAGCTTCAGAGTAAGGATTAACCTCCAGAACAGCCAGTGGAATGGACAG 240
Db 1490 CCATCCAGCTTCAGAGTAAGGATTAACCTCCAGAACAGCCAGTGGAATGGACAG 1549
QY 241 TGATCGTGACAGCACCGTGGGAAAGGACATTTTGTCTTATCATCTGGACAAACGCGAC 300
Db 1550 TGATCGTGACAGCACCGTGGGAAAGGACATTTTGTCTTATCATCTGGACAAACGCGAC 1609
QY 301 CTCCCCAAATCTCTCTGGGATCCAGTGGACAGAAAGAGTGCTTTGTAGTGGACA 360
Db 1610 CTCCCCAAATCTCTCTGGGATCCAGTGGACAGAAAGAGTGCTTTGTAGTGGACA 1669
QY 361 AAAACACCAAAATGGCTACCTCCAAATCCAGGCATTCCTAAGGTGGCACTTGGAAAT 420
Db 1670 AAAACACCAAAATGGCTACCTCCAAATCCAGGCATTCCTAAGGTGGCACTTGGAAAT 1729
QY 421 ACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTCACTGCCGTGGGTCCAAATG 480
Db 1730 ACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTCACTGCCGTGGGTCCAAATG 1789
QY 481 CTACCTGCTCCAAATTAAGTGAATTCGCAAAACGAAACAGGACACCAAGCAAAATCCCCA 540
Db 1790 CTACCTGCTCCAAATTAAGTGAATTCGCAAAACGAAACAGGACACCAAGCAAAATCCCCA 1849
QY 541 GCGCTCTGCTAGTTTATGCAATATTCGCAAGGAGCTCCCAATCTCAGGCGCAGTG 600
Db 1850 GCGCTCTGCTAGTTTATGCAATATTCGCAAGGAGCTCCCAATCTCAGGCGCAGTG 1909
QY 601 TCACAGCCCTGATTAAGTCAAGTGAATGGAAGAAACAGTTACCTTGGAACTACTGGATAATG 660
Db 1910 TCACAGCCCTGATTAAGTCAAGTGAATGGAAGAAACAGTTACCTTGGAACTACTGGATAATG 1969
QY 661 GAGCAGTCTGATGCTACTAAGATGACGGGTGTCTACTCAAGGTATTTCACAACTATG 720
Db 1970 GAGCAGTCTGATGCTACTAAGATGACGGGTGTCTACTCAAGGTATTTCACAACTATG 2029
QY 721 ACAGCAATGGTAGATACAGTGTAAAGTGGGGCTCTGGAGGAGTTAAGCGACGACAG 780
Db 2030 ACAGCAATGGTAGATACAGTGTAAAGTGGGGCTCTGGAGGAGTTAAGCGACGACAG 2089
QY 781 GGAGAGTGATACCCAGCAGAGTGGAGCTGTACATACCTGCTGGATTGAGAATGATG 840
Db 2090 GGAGAGTGATACCCAGCAGAGTGGAGCTGTACATACCTGCTGGATTGAGAATGATG 2149
QY 841 AAATACAATGGAAATCCACCAAGACCTGAAATTAATAAGGATGATGTTCAACCAAGCAAG 900
Db 2150 AAATACAATGGAAATCCACCAAGACCTGAAATTAATAAGGATGATGTTCAACCAAGCAAG 2209
QY 901 TGTGTTTACAGCAGAACATCTCGGAGGCTCAATTTGTGGCTTCTGATGTCCCAATGCTC 960
Db 2210 TGTGTTTACAGCAGAACATCTCGGAGGCTCAATTTGTGGCTTCTGATGTCCCAATGCTC 2269
QY 961 CCATACCTGATCTTTCCCACTGGCCAAATCACCGACCTGAAGCGGAAATTCAGGGG 1020
Db 2270 CCATACCTGATCTTTCCCACTGGCCAAATCACCGACCTGAAGCGGAAATTCAGGGG 2329
QY 1021 GCAGTCTCAATTAATCTGACTTGGACAGCTTCTGGGGATGATTAATGACCATGGAACAGCTC 1080
Db 2330 GCAGTCTCAATTAATCTGACTTGGACAGCTTCTGGGGATGATTAATGACCATGGAACAGCTC 2389
QY 1081 ACAAGTATATCAATTCGAATGAATGACAGTATTTCTTGAATCTCAGAGCAAGTTCAATGAAT 1140
Db 2390 ACAAGTATATCAATTCGAATGAATGACAGTATTTCTTGAATCTCAGAGCAAGTTCAATGAAT 2449
QY 1141 CTCCTCAAGTGAATACTGCTCTCATCCCAAGGAAGCCAACTCTGAGGAGTCTTTT 1200
Db 2450 CTCCTCAAGTGAATACTGCTCTCATCCCAAGGAAGCCAACTCTGAGGAGTCTTTT 2509
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QY 1201 TGTTTAAACCAAGAAACATTACTTTTGAATATGGCACAGATCTTTTCATTGCTATTACAGG 1260
Db 2510 TGTTTAAACCAAGAAACATTACTTTTGAATATGGCACAGATCTTTTCATTGCTATTACAGG 2569
QY 1261 CTGTTGATAAGTCTGATCTGAAATCAGAAATATCAAAATTCGACGAGTATCTTTGTTTA 1320
Db 2570 CTGTTGATAAGTCTGATCTGAAATCAGAAATATCAAAATTCGACGAGTATCTTTGTTTA 2629
QY 1321 TTCTCTCCACAGACTCCGCCAGAGACACCTAGTCTCTGATGAAACGCTGCTCTTGTCTTA 1380
Db 2630 TTCTCTCCACAGACTCCGCCAGAGACACCTAGTCTCTGATGAAACGCTGCTCTTGTCTTA 2689
QY 1381 ATATTATATATCAACAGCACCATTCTCGCATTCACATTTTAAATATATGTCGAAGTGA 1440
Db 2690 ATATTATATATCAACAGCACCATTCTCGCATTCACATTTTAAATATATGTCGAAGTGA 2749
QY 1441 TAGGAGAACTGCGAGCTGTCAATAGCTAGGGCTGAAATTTTGTCTAGATAAAATAAAATAA 1500
Db 2750 TAGGAGAACTGCGAGCTGTCAATAGCTAGGGCTGAAATTTTGTCTAGATAAAATAAAATAA 2809
QY 1501 TCATTTCATCTTTTGTGATTATATAAAATTTTCTAAATATGATTTTGTAGACTTCTCTAGG 1560
Db 2810 TCATTTCATCTTTTGTGATTATATAAAATTTTCTAAATATGATTTTGTAGACTTCTCTAGG 2869
QY 1561 GGGCGATATATCAATATATATAGTACATTTATATCAATATGATTTCTCTAGGGGCGAT 1620
Db 2870 GGGCGATATATCAATATATATAGTACATTTATATCAATATGATTTCTCTAGGGGCGAT 2929
QY 1621 ATACTAAATATGATTTTGTAGACTTCTCTAGGGGCGATATAAAATGCTAAACAACTGG 1680
Db 2930 ATACTAAATATGATTTTGTAGACTTCTCTAGGGGCGATATAAAATGCTAAACAACTGG 2989
QY 1681 GTA 1683
Db 2990 GTA 2992

RESULT 5
US-09-764-868-22
; Sequence 22, Application US/09764868
; Patent No. US20020168711A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT232
; CURRENT APPLICATION NUMBER: US/09/764,868
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1510
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 22
; LENGTH: 3267
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-868-22

Query Match 100.0%; Score 1683; DB 9; Length 3267;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1683; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAAGTGGTGCCATCATCCACAGTGCCTTTGGGGCCCTCTGAGCTCAAGAACTAG 60
Db 1311 ACAAAGTGGTGCCATCATCCACAGTGCCTTTGGGGCCCTCTGAGCTCAAGAACTAG 1370
QY 61 AGGAGCTGTCCAAAATGACAGGAGTTTACACACATATGCTTCAGATCAAGTTCAGAAACA 120
Db 1371 AGGAGCTGTCCAAAATGACAGGAGTTTACACACATATGCTTCAGATCAAGTTCAGAAACA 1430
QY 121 ATGGCTCATTCATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGTGTCTCTCAGCGCT 180
Db 1431 ATGGCTCATTCATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGTGTCTCTCAGCGCT 1490
QY 181 CCATCCAGCTTCAGAGTAAGGATTAACCTCCAGAACAGCCAGTGGAATGGACAG 240
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Db 1491 CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAGTGAATGAATGCACAG 1550  
QY 241 TCATCGTGGACAGCACCGTGGAAAGGACATTTCTTTATCATCCTGGACAAAGCCAGC 300  
Db 1551 TGATCGTGACAGCACCGTGGAAAGGACATTTCTTTATCATCCTGGACAAAGCCAGC 1610  
QY 301 CTCCTCCAAATCTCTCTGGGATCCAGTGGACAGAAAGGTGGCTTTGTAGTGGACA 360  
Db 1611 CTCCTCCAAATCTCTCTGGGATCCAGTGGACAGAAAGGTGGCTTTGTAGTGGACA 1670  
QY 361 AAAACACCAAAATGCCCTACCTCCAAATCCAGGCAATGCTAAGTGTGGCACTTGGAAAT 420  
Db 1671 AAAACACCAAAATGCCCTACCTCCAAATCCAGGCAATGCTAAGTGTGGCACTTGGAAAT 1730  
QY 421 ACAGTCTGCAACAGCTCACAAAACCTTGACCCCTGACTGTGACGTCCCGTGGTCCAATG 480  
Db 1731 ACAGTCTGCAACAGCTCACAAAACCTTGACCCCTGACTGTGACGTCCCGTGGTCCAATG 1790  
QY 481 CTACCTGCTCCAAATACAGTGACTTCCAAACGAAACAGGACACACAGCAAAATCCCCA 540  
Db 1791 CTACCTGCTCCAAATACAGTGACTTCCAAACGAAACAGGACACACAGCAAAATCCCCA 1850  
QY 541 GCCCTCTGCTAGTTATGCAAAATATTGCGCAAGGAGCCCTCCCAATTTCTCAGGGCCAGTG 600  
Db 1851 GCCCTCTGCTAGTTATGCAAAATATTGCGCAAGGAGCCCTCCCAATTTCTCAGGGCCAGTG 1910  
QY 601 TCACAGCCCTGATTAAGTCAAGTGAATGTAAGAAACAGTTACCTTGGAACTACTGGATTAATG 660  
Db 1911 TCACAGCCCTGATTAAGTCAAGTGAATGTAAGAAACAGTTACCTTGGAACTACTGGATTAATG 1970  
QY 661 GAGCAGGTGCTCATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTTCACAACTTATG 720  
Db 1971 GAGCAGGTGCTCATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTTCACAACTTATG 2030  
QY 721 ACACGAATGGTAGATACAGTGTAAAGTGTGGGCTCTGGAGGAGTTAAACGAGCCAGAC 780  
Db 2031 ACACGAATGGTAGATACAGTGTAAAGTGTGGGCTCTGGAGGAGTTAAACGAGCCAGAC 2090  
QY 781 GGAGAGTGTATCCCGACAGAGTGGAGCTGTACATACCTGGCTGGATGGAATGATGATG 840  
Db 2091 GGAGAGTGTATCCCGACAGAGTGGAGCTGTACATACCTGGCTGGATGGAATGATGATG 2150  
QY 841 AAATCAATGGAAATCCACCAAGACCTGAAATTAATAGGATGATGTTCAACAACAAGCAAG 900  
Db 2151 AAATCAATGGAAATCCACCAAGACCTGAAATTAATAGGATGATGTTCAACAACAAGCAAG 2210  
QY 901 TGTGTTTCAGCAGAACATCTCGGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGCTC 960  
Db 2211 TGTGTTTCAGCAGAACATCTCGGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGCTC 2270  
QY 961 CCATACCTGATCTCTTCCACCTGGCCAAATCACCGACCTGAAGGGGAAATTCAGGGG 1020  
Db 2271 CCATACCTGATCTCTTCCACCTGGCCAAATCACCGACCTGAAGGGGAAATTCAGGGG 2330  
QY 1021 GCAGTCTCATTAATCTGACTGGACAGCTCCTGGGGATGATTAATGACCATGGAACAGCTC 1080  
Db 2331 GCAGTCTCATTAATCTGACTGGACAGCTCCTGGGGATGATTAATGACCATGGAACAGCTC 2390  
QY 1081 ACAAGTATATCATTCGAATAAGTACAAGTATTTCTTGATCTCAGAGACAAAGTTCAATGAAT 1140  
Db 2391 ACAAGTATATCATTCGAATAAGTACAAGTATTTCTTGATCTCAGAGACAAAGTTCAATGAAT 2450  
QY 1141 CTCCTCAAGTGAATACTACTGCTCTCATCCCAAGGAAGCCAACTCTGAGGAAGTCTTTT 1200  
Db 2451 CTCCTCAAGTGAATACTACTGCTCTCATCCCAAGGAAGCCAACTCTGAGGAAGTCTTTT 2510  
QY 1201 TGTGTTAAACCAAAACATTTACTTTTGAATAGGACAGATCTTTTCAATGCTATTTCAGG 1260  
Db 2511 TGTGTTAAACCAAAACATTTACTTTTGAATAGGACAGATCTTTTCAATGCTATTTCAGG 2570  
QY 1261 CTGTTGATAAGGTGCGATCTGAAATCAGAAATATCCAACTTCACAGGATATCTTTGTTTA 1320

Db 2571 CTGTTGATAAGGTGCGATCTGAAATCAGAAATATCCAACTTCACAGGATATCTTTGTTTA 2630  
QY 1321 TTCTCTCCACAGACTCCGCCAGAGACACCTAGTCTCTGATGAAACGTCCTCTCTCTCTCTA 1380  
Db 2631 TTCTCTCCACAGACTCCGCCAGAGACACCTAGTCTCTGATGAAACGTCCTCTCTCTCTA 2690  
QY 1381 ATATTATATCAACAGACACCAATCTCTGGCAATTCACATTTTAAAAATTAATGTGGAAGTGA 1440  
Db 2691 ATATTATATCAACAGACACCAATCTCTGGCAATTCACATTTTAAAAATTAATGTGGAAGTGA 2750  
QY 1441 TAGGAGAACTCAGCTGTCAATAGCTAGGCTGAATTTTGTGACAGATAAATAAATAA 1500  
Db 2751 TAGGAGAACTCAGCTGTCAATAGCTAGGCTGAATTTTGTGACAGATAAATAAATAA 2810  
QY 1501 TCATTTCATCTTTTGTGATTAATAAATTTTCTAAAAATGATTTTAGACTTCTCTGTAGG 1560  
Db 2811 TCATTTCATCTTTTGTGATTAATAAATTTTCTAAAAATGATTTTAGACTTCTCTGTAGG 2870  
QY 1561 GGGCGATATACATAATGTATATAGTACATTTTATCTAAATGTATTTCTGTAGGGGCGAT 1620  
Db 2871 GGGCGATATACATAATGTATATAGTACATTTTATCTAAATGTATTTCTGTAGGGGCGAT 2930  
QY 1621 ATACTAAATGTATTTAGACTTCTGTAGGGGCGATAAAAATAAATGCTAAACACTGG 1680  
Db 2931 ATACTAAATGTATTTAGACTTCTGTAGGGGCGATAAAAATAAATGCTAAACACTGG 2990  
QY 1681 GTA 1683  
Db 2991 GTA 2993

## RESULT 6

US-10-055-412B-27  
; Sequence 27, Application US/10055412B  
; Publication No. US20030059861A1  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedict U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; ; ACTIVATED Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055.412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 27  
; LENGTH: 3007  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-055-412B-27

Query Match 99.6%; Score 1676.6; DB 15; Length 3007;  
Best Local Similarity 99.8%; Pred. No. 0;  
Matches 1679; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
QY 1 AACAAAGTGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 60  
Db 1323 AACAAAGTGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 1382  
QY 61 AGGAGCTCTCCAAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAAACA 120  
Db 1383 AGGAGCTCTCCAAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAAACA 1442  
QY 121 ATGGCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCT 180  
Db 1443 ATGGCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCT 1502  
QY 181 CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAGTGGATGATGACACAG 240  
Db 1503 CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAGTGGATGATGACACAG 1562



QY 241 TGATCGTGCAGCAGCCGTGGGAAGGACACATTTGTTCTTATCACTCGGACAAAGCCAGC 300  
Db 1563 TGATCGTGACAGCAGCCGTGGGAAGGACACATTTGTTCTTATCACTCGGACAAAGCCAGC 1622  
QY 301 CTCGCCAAATCTTCTCTGGGATCCAGTGGACAGAAAGAGTGGCTTTGTAGTGGACA 360  
Db 1623 CTCGCCAAATCTTCTCTGGGATCCAGTGGACAGAAAGAGTGGCTTTGTAGTGGACA 1682  
QY 361 AAAACACCAAAATGGCTTCACTCCAAATCCAGGCAATTCCTAAGTGTGGCACTTGGAAAT 420  
Db 1683 AAAACACCAAAATGGCTTCACTCCAAATCCAGGCAATTCCTAAGTGTGGCACTTGGAAAT 1742  
QY 421 ACAGTCTGCAAGCAGCTCACAACCTTGACCTGACTGTCTGAGTCCCGTCCGATG 480  
Db 1743 ACAGTCTGCAAGCAGCTCACAACCTTGACCTGACTGTCTGAGTCCCGTCCGATG 1802  
QY 481 CTACCTCGCTCCAAATACAGTGACTTCCAAACGAAGACACAGCAAAATCCCA 540  
Db 1803 CTACCTCGCTCCAAATACAGTGACTTCCAAACGAAGACACAGCAAAATCCCA 1862  
QY 541 GGCCTCTGTAGTTATGCAAAATATTCGCAAGGAGCCTCCCAATTTCTCAGGCGCAGTG 600  
Db 1863 GGCCTCTGTAGTTATGCAAAATATTCGCAAGGAGCCTCCCAATTTCTCAGGCGCAGTG 1922  
QY 601 TCACAGCCCTGATTGAAATCAGTGAATGGAAACAGTTACCTTGGAACTACTGGATAATG 660  
Db 1923 TCACAGCCCTGATTGAAATCAGTGAATGGAAACAGTTACCTTGGAACTACTGGATAATG 1982  
QY 661 GAGCAGGTCTGATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTTTCACAACTTATG 720  
Db 1983 GAGCAGGTCTGATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTTTCACAACTTATG 2042  
QY 721 ACACGAATGGTATGATACAGTGTAAAGTGGGGCTCTGGAGGAGTTAAACGAGCCAGAC 780  
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Db 2163 AAATCAATGGAAATCCACCAAGACCTGAAATTAATAGGATGATGTTCAACACAGCAAG 2222  
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QY 961 CCATACCTGATCTCTTCCACCTGGCCAAATCACCGACCTGAAGGGGAAATTCAGGGG 1020  
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Db 2343 GCAGTCTCAATTAATCTGACTGACAGCTCCTGGGGATGATTAACCATGGAACAGCTC 2402  
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Db 2463 CTCCTTCAAGTGAATACTACTGCTCTCATCCCAAGAGCCAACTCTGAGGAGTCTTTT 2522  
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QY 1681 GTA 1683  
Db 3003 GGA 3005

RESULT 7  
US-09-922-217-1056  
; Sequence 1056, Application US/09922217  
; Patent No. US2002076414A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Yuxiu  
; APPLICANT: Smith, Carole Lynn  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.471C13  
; CURRENT APPLICATION NUMBER: US/09/922,217  
; CURRENT FILING DATE: 2001-08-03  
; NUMBER OF SEQ ID NOS: 1124  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1056  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-922-217-1056

Query Match 99.3%; Score 1671; DB 9; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1682; Conservative 0; Mismatches 0; Indels 1; Gaps 1;  
QY 1 AACAAAGTGGTGCCATCATCCACAGTCGCTTTGGGGCCCTCTCGAGCTCAAGAACTAG 60  
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QY 61 AGGAGCTGTCCAAAATGACAGAGGTTTACAGACATATGCTTTCAGATCAAGTTCAAGACA 120  
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QY 241 TGATCGTGGACAGCACCGTGGGAAAGGACATTTTGTCTTATACACCTGGGACAAAGCGAGC 300
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QY 1681 GTA 1683
Db 3307 GTA 3309

RESULT 8
US-09-833-263-1056
; Sequence 1056, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Stolk, John A.
; APPLICANT: Meagher, Madeleine J.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C12
; CURRENT APPLICATION NUMBER: US/09/833.263
; CURRENT FILING DATE: 2001-04-10
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1056
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-833-263-1056

Query Match 99.3%; Score 1671; DB 9; Length 3311;
Best Local Similarity 99.9%; Pred No. 0;
Matches 1682; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 AACAAAGTGGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 60
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Db 3307 GTA 3309

## RESULT 9

US-10-025-380-1056  
; Sequence 1056, Application US/10025380  
; Publication No. US20020182191A1

## GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Yugu  
; APPLICANT: Smith, Carole L.  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Skeiky, Yasir A. W.  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Vedwick Thomas S.  
; APPLICANT: Carter, Darick  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; FILE REFERENCE: 210121.471C14  
; CURRENT APPLICATION NUMBER: US/10/025,380  
; CURRENT FILING DATE: 2001-12-19  
; NUMBER OF SEQ ID NOS: 1129  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1056  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; US-10-025-380-1056

Query Match 99.3%; Score 1671; DB 14; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1682; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 AACAAAGTGGTCCCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 60  
Db 1628 AACAAAGTGGTCCCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 1687  
QY 61 AGGAGCTGTCCAAATGACAGGAGGTTTACAGACATATGCTTTCAGATCAAGTTTCAAGACA 120

Db 1688 AGGAGCTGTCACAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAAC 1747  
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Qy 181 CCATCCAGCTTCAGAGTAAGGATTAACCCCTCCAGAAACAGCCAGTGGATGGAATGCACAG 240  
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Qy 1501 TCATTTCATCTTTTGTGATTAATAATTTCTAAATTTTGTGATGATAAAATAAATAAATAA 1560  
Db 3128 TCATTTCATCTTTTGTGATTAATAATTTCTAAATTTTGTGATGATAAAATAAATAAATAA 3186  
Qy 1561 GGGCGATATACATAATGATATAGTACATTTATATACTAAATGATTTTCTGTTAGGGGGCGAT 1620  
Db 3187 GGGCGATATACATAATGATATAGTACATTTATATACTAAATGATTTTCTGTTAGGGGGCGAT 3246  
Qy 1621 ATACTAAATGATTTTGTGATTTAGCTTCTCTAGGGGGCGATAAAAATAAAATGCTAAACAACTGG 1680  
Db 3247 ATACTAAATGATTTTGTGATTTAGCTTCTCTAGGGGGCGATAAAAATAAAATGCTAAACAACTGG 3306  
Qy 1681 GTA 1683  
Db 3307 GTA 3309

RESULT 10  
US-10-393-590-11  
; Sequence 11, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNOSTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 11  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
; US-10-393-590-11

Query Match 99.3%; Score 1671; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1682; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

Qy 1 AACAAAGTGTGCCATCATCCACAGCTCGCTTTGGGGCCCTCTGCGAGCTCAAGAACTAG 60  
Db 1628 AACAAAGTGTGCCATCATCCACAGCTCGCTTTGGGGCCCTCTGCGAGCTCAAGAACTAG 1687  
Qy 61 AGGAGCTGTCCAAATGACAGGAGGTTTACAGACATATGCTTTCAGATCAAGTTCAAGAAC 120  
Db 1688 AGGAGCTGTCCAAATGACAGGAGGTTTACAGACATATGCTTTCAGATCAAGTTCAAGAAC 1747  
Qy 121 ATGCGCTCATTTGATGCTTTTGGGGCCCTTTTCCATCAGGAAATGAGCTGTCTCTCAGCGCT 180

Db 1748 ATGGCTCATTTGCTTTTGGGGCCCTTTTCAATCAGGAATGAGCTGTCTCTCAGCGCT 1807  
Qy 181 CCATCAGCTTGAGAGTAAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCACAG 240  
Db 1808 CCATCAGCTTGAGAGTAAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCACAG 1867  
Qy 241 TGATCGTGAGACAGCAGCTGGGAAAGGACATTTTGTCTTATCAGCTGGACAAAGCAGC 300  
Db 1868 TGATCGTGAGACAGCAGCTGGGAAAGGACATTTTGTCTTATCAGCTGGACAAAGCAGC 1927  
Qy 301 CTCGCCCAATCTCTCTGGGATCCAGTGGACAGAGCAAGGTGGCTTTGTAGTGGACA 360  
Db 1928 CTCGCCCAATCTCTCTGGGATCCAGTGGACAGAGCAAGGTGGCTTTGTAGTGGACA 1987  
Qy 361 AAAACACCAAAATGGCTACCTCCAAATCCAGGCAATTCCTAAGGTGGCACTTGGAAAT 420  
Db 1988 AAAACACCAAAATGGCTACCTCCAAATCCAGGCAATTCCTAAGGTGGCACTTGGAAAT 2047  
Qy 421 ACAGCTGCAAGCAAGCTCAGAACTTGACCTGACTGTCTACGCTCCGCTGGTCCCAATG 480  
Db 2048 ACAGCTGCAAGCAAGCTCAGAACTTGACCTGACTGTCTACGCTCCGCTGGTCCCAATG 2107  
Qy 481 CTACCTCGCTCCAAATACAGTGAATTCAGAAACGAAACAGGACACCAACCAATTCGCCA 540  
Db 2108 CTACCTCGCTCCAAATACAGTGAATTCAGAAACGAAACAGGACACCAACCAATTCGCCA 2167  
Qy 541 GCCCTCTGTAGTTATGCAAAATATTCGCAAGGAGCCTCCCAATTCCTCAGGGCCAGTG 600  
Db 2168 GCCCTCTGTAGTTATGCAAAATATTCGCAAGGAGCCTCCCAATTCCTCAGGGCCAGTG 2227  
Qy 601 TCACAGCCCTGAATGAATCAGTGAATGGAAACAGTTACCTTGGAACTTCTGGATAATG 660  
Db 2228 TCACAGCCCTGAATGAATCAGTGAATGGAAACAGTTACCTTGGAACTTCTGGATAATG 2287  
Qy 661 GAGCAGGTGCTATGCTACTAAGATGACGGTGTCTACTCAAGTATTTTCAAACTTATG 720  
Db 2288 GAGCAGGTGCTATGCTACTAAGATGACGGTGTCTACTCAAGTATTTTCAAACTTATG 2347  
Qy 721 ACACGAATGGTAGATACAGTGTAAAGTGGGGCTCTGGGAGGATTAACGAGCAGAC 780  
Db 2348 ACACGAATGGTAGATACAGTGTAAAGTGGGGCTCTGGGAGGATTAACGAGCAGAC 2407  
Qy 781 GGAGAGTGATACCCAGCAGAGTGGAGCTGTACATACCTGGCTGGATGAGATGATG 840  
Db 2408 GGAGAGTGATACCCAGCAGAGTGGAGCTGTACATACCTGGCTGGATGAGATGATG 2467  
Qy 841 AAATCAATGGAAATCCACCAAGACCTGAAATTAATAAGGATGATGTTCAACACAGCAG 900  
Db 2468 AAATCAATGGAAATCCACCAAGACCTGAAATTAATAAGGATGATGTTCAACACAGCAG 2527  
Qy 901 TGTGTTTCAGCAGAAATCCTCGGAGGCTCATTTGTGGCTCTGATGTCCTCAAAATGCTC 960  
Db 2528 TGTGTTTCAGCAGAAATCCTCGGAGGCTCATTTGTGGCTCTGATGTCCTCAAAATGCTC 2587  
Qy 961 CCATACCTGATCTCTTCCACCTCGCCAAATCACCGACCTGAAGCGGAAATTCACGGGG 1020  
Db 2588 CCATACCTGATCTCTTCCACCTCGCCAAATCACCGACCTGAAGCGGAAATTCACGGGG 2647  
Qy 1021 GCAGTCTCAATTAATCTGACTTGGACAGCTCTCGGGGATGATTAATGACCAAGCAGCTC 1080  
Db 2648 GCAGTCTCAATTAATCTGACTTGGACAGCTCTCGGGGATGATTAATGACCAAGCAGCTC 2707  
Qy 1081 ACAAGTATATCATTCGAATAAGTACAGTATTTCTTGATCTCAGACAGAGTTCAATGAT 1140  
Db 2708 ACAAGTATATCATTCGAATAAGTACAGTATTTCTTGATCTCAGACAGAGTTCAATGAT 2767  
Qy 1141 CTCCTTCAAGTGAATACTACTGTCTCATCCCAAGGAAGCCAACTCTCAGGAAAGTCTTTT 1200  
Db 2768 CTCCTTCAAGTGAATACTACTGTCTCATCCCAAGGAAGCCAACTCTCAGGAAAGTCTTTT 2827  
Qy 1201 TGTTTAAACCAAGAAACATTTATTTGAAAAATGGCACAGATCTTTTCAATGCTATTCAGG 1260  
Db 2828 TGTTTAAACCAAGAAACATTTATTTGAAAAATGGCACAGATCTTTTCAATGCTATTCAGG 2887

## RESULT 11

US-10-393-590-12

; Sequence 12, Application US/10393590

; Publication No. US20030190656A1

; GENERAL INFORMATION:

; APPLICANT: WANG, YIXIN

; TITLE OF INVENTION: BREAST CANCER PROGNOSTIC PORTFOLIO

; FILE REFERENCE: CDS 268 US NP

; CURRENT APPLICATION NUMBER: US/10/393,590

; CURRENT FILING DATE: 2003-03-21

; PRIOR APPLICATION NUMBER: 60/368,789

; PRIOR FILING DATE: 2002-03-29

; NUMBER OF SEQ ID NOS: 100

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 12

; LENGTH: 3311

; TYPE: DNA

; ORGANISM: human

US-10-393-590-12

Query Match 99.3%; Score 1671; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1682; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

Qy 1 AACAAAGTGGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGAGCTCAAGAACTAG 60  
Db 1628 AACAAAGTGGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGAGCTCAAGAACTAG 1687  
Qy 61 AGGAGCTGCCAAATGACAGAGGCTTTACAGACATATGCTTCAGATCAAGTTCCAGAAC 120  
Db 1688 AGGAGCTGCCAAATGACAGAGGCTTTACAGACATATGCTTCAGATCAAGTTCCAGAAC 1747  
Qy 121 ATGGGCTCATTCATGCTTTTGGGGCCCTTTTCAATCAGGAAATGGAGTGTCTCTCAGCGCT 180  
Db 1748 ATGGGCTCATTCATGCTTTTGGGGCCCTTTTCAATCAGGAAATGGAGTGTCTCTCAGCGCT 1807  
Qy 181 CCATCAGCTTGAGAGTAAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCACAG 240  
Db 1808 CCATCAGCTTGAGAGTAAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCACAG 1867

QY 241 TGATCGTGACAGCACCCTGGGAAAGGACATTTTGTCTTATCACTTGGACAAAGCCAGC 300  
DB |||||  
1868 TGATCGTGACAGCACCCTGGGAAAGGACATTTTGTCTTATCACTTGGACAAAGCCAGC 1927  
QY 301 CTCGCCAAATCTCTCTGGGATCCAGTGGGACAGAAAGAGTGGCTTTGTAGTGGACA 360  
DB |||||  
1928 CTCGCCAAATCTCTCTGGGATCCAGTGGGACAGAAAGAGTGGCTTTGTAGTGGACA 1987  
QY 361 AAAACACCAAAATGGCTTACCTCCAAATCCAGGCAATTCGTAAGTTGGCACTTGGAAAT 420  
DB |||||  
1988 AAAACACCAAAATGGCTTACCTCCAAATCCAGGCAATTCGTAAGTTGGCACTTGGAAAT 2047  
QY 421 ACAGTCTGCAAGCAAGCTCACAAACCTTGACCCTGACTGTCTACGTCCTGGTGGTCCAATG 480  
DB |||||  
2048 ACAGTCTGCAAGCAAGCTCACAAACCTTGACCCTGACTGTCTACGTCCTGGTGGTCCAATG 2107  
QY 481 CTACCTGCTCCAAATACAGTGACTTCCAAACGAAACAGGACACCAAGCAAAATCCCCA 540  
DB |||||  
2108 CTACCTGCTCCAAATACAGTGACTTCCAAACGAAACAGGACACCAAGCAAAATCCCCA 2167  
QY 541 GGCCTCTGTAGTTTATGCAATATTCGCAAGGAGCCTCCCAATCTTCAGGGCCAGTG 600  
DB |||||  
2168 GGCCTCTGTAGTTTATGCAATATTCGCAAGGAGCCTCCCAATCTTCAGGGCCAGTG 2227  
QY 601 TCACAGCCTGATTTGAATCAGTGAATGGAAACAGTTTACCTTGGAACTTACTGGATAATG 660  
DB |||||  
2228 TCACAGCCTGATTTGAATCAGTGAATGGAAACAGTTTACCTTGGAACTTACTGGATAATG 2287  
QY 661 GAGCAGGTCTGATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTTCACAACTTATG 720  
DB |||||  
2288 GAGCAGGTCTGATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTTCACAACTTATG 2347  
QY 721 ACACGAATGGTAGATACAGTGTAAAGTGGGGCTCTGGGAGGATTAACGAGCCAGAC 780  
DB |||||  
2348 ACACGAATGGTAGATACAGTGTAAAGTGGGGCTCTGGGAGGATTAACGAGCCAGAC 2407  
QY 781 GGAGAGTGATACCCAGCAGGTGGAGCACTGTACATACCTCGCTGGTGGATTGAGATGATG 840  
DB |||||  
2408 GGAGAGTGATACCCAGCAGGTGGAGCACTGTACATACCTCGCTGGTGGATTGAGATGATG 2467  
QY 841 AAATCAATGGAAATCCACCAAGACCTGAAATTAATAAGGATGATGTTCAACAACAAGCAAG 900  
DB |||||  
2468 AAATCAATGGAAATCCACCAAGACCTGAAATTAATAAGGATGATGTTCAACAACAAGCAAG 2527  
QY 901 TGTGTTTCAGCAGAACATCTCGGAGGCTCATTTTGTGGCTTCTGATGTCCTCCAAATGCTC 960  
DB |||||  
2528 TGTGTTTCAGCAGAACATCTCGGAGGCTCATTTTGTGGCTTCTGATGTCCTCCAAATGCTC 2587  
QY 961 CCATACCTGATCTCTTCCACCTGGCCAAATCACCGACCTGAAGCGGAAATTCACGGGG 1020  
DB |||||  
2588 CCATACCTGATCTCTTCCACCTGGCCAAATCACCGACCTGAAGCGGAAATTCACGGGG 2647  
QY 1021 GCAGTCTCATTAATCTGATGGACAGCTCTCTGGGATGATTAATGACCATGGAACAGCTC 1080  
DB |||||  
2648 GCAGTCTCATTAATCTGATGGACAGCTCTCTGGGATGATTAATGACCATGGAACAGCTC 2707  
QY 1081 ACAAGTATATCATTTGGAATAGTACAGTATTTCTGATCTCAGACAAAGTTCAATGAAT 1140  
DB |||||  
2708 ACAAGTATATCATTTGGAATAGTACAGTATTTCTGATCTCAGACAAAGTTCAATGAAT 2767  
QY 1141 CTCCTTCAAGTGAATATCTACTGCTCTCATCCCAAGGAAGCCAACTCTCAGGAAGTCTTTT 1200  
DB |||||  
2768 CTCCTTCAAGTGAATATCTACTGCTCTCATCCCAAGGAAGCCAACTCTCAGGAAGTCTTTT 2827  
QY 1201 TGTTTAAACAGAAACATTAATTTTGAATAATGGCAGAGATCTTTTCAATGCTATTCAGG 1260  
DB |||||  
2828 TGTTTAAACAGAAACATTAATTTTGAATAATGGCAGAGATCTTTTCAATGCTATTCAGG 2887  
QY 1261 CTGTTGATAGTTCGATCTGGAATCAGAAATATCAACATTCACAGAGTATCTTTGTTTA 1320  
DB |||||  
2888 CTGTTGATAGTTCGATCTGGAATCAGAAATATCAACATTCACAGAGTATCTTTGTTTA 2947

QY 1321 TTCTCCACAGACTCCGCCAGAGACACCTAGTCTCTGATGAAACGCTCTCTCTCTTCCTA 1380  
DB |||||  
2948 TTCTCCACAGACTCCGCCAGAGACACCTAGTCTCTGATGAAACGCTCTCTCTCTTCCTA 3007  
QY 1381 ATATTTCATATCAACAGCAGCATTCTCTGCAATTCACATTTTAAATTTATGTGGAAGTGA 1440  
DB |||||  
3008 ATATTTCATATCAACAGCAGCATTCTCTGCAATTCACATTTTAAATTTATGTGGAAGTGA 3067  
QY 1441 TAGGAGAACTGCAGCTGTCAATAGCTAGGCTGAATTTTGTGTCAGATAAAATAAATAA 1500  
DB |||||  
3068 TAGGAGAACTGCAGCTGTCAATAGCTAGGCTGAATTTTGTGTCAGATAAAATAAATAA 3127  
QY 1501 TCATTTCATCTTTTGTGATTATAAAATTTTCTAAATGTATTTTAGACTTCTCTGTAGG 1560  
DB |||||  
3128 TCATTTCATCTTTTGTGATTATAAAATTTTCTAAATGTATTTTAGACTTCTCTGTAGG 3186  
QY 1561 GGGCGATATCTAAATGTATATAGTACATTTTATCTAAATGTATTTCTCTGTAGGGGCGAT 1620  
DB |||||  
3187 GGGCGATATCTAAATGTATATAGTACATTTTATCTAAATGTATTTCTCTGTAGGGGCGAT 3246  
QY 1621 ATACTTAAATGTATTTAGACTTCTCTGTAGGGGCGATAAAATAAATGCTAAACCACTGG 1680  
DB |||||  
3247 ATACTTAAATGTATTTAGACTTCTCTGTAGGGGCGATAAAATAAATGCTAAACCACTGG 3306  
QY 1681 GTA 1683  
DB |||||  
3307 GTA 3309

## RESULT 12

US-10-393-590-46  
; Sequence 46, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 46  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-590-46

Query Match 99.3%; Score 1671; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1682; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 AACAAAGTGGTGCCATCATCCACAGTCGGCTTTGGGGCCCTCTGACGCTCAAGAACTAG 60  
DB |||||  
1628 AACAAAGTGGTGCCATCATCCACAGTCGGCTTTGGGGCCCTCTGACGCTCAAGAACTAG 1687  
QY 61 AGGAGCTGTCCAAATAGCAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGACA 120  
DB |||||  
1688 AGGAGCTGTCCAAATAGCAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGACA 1747  
QY 121 ATGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGCTCTCAGCGCT 180  
DB |||||  
1748 ATGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGCTCTCAGCGCT 1807  
QY 181 CCATCCAGCTTTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGCCACAG 240  
DB |||||  
1808 CCATCCAGCTTTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGCCACAG 1867  
QY 241 TGATCGTGACAGCACCCTGGGAAAGGACATTTTGTCTTATCACCTGGACCAAGCCAGC 300  
DB |||||  
1868 TGATCGTGACAGCACCCTGGGAAAGGACATTTTGTCTTATCACCTGGACCAAGCCAGC 1927

QY 301 CTCCCAAACTCTCTCTGGGATCCAGTGGACAGAACAGGTGGCTTTGTAGTGGACA 360  
DB 1928 CTCCCAAACTCTCTCTGGGATCCAGTGGACAGAACAGGTGGCTTTGTAGTGGACA 1987  
QY 361 AAAACACCAAAATGGCTTCACTTCAAAATCCAGGCAATTCCTAAGGTGGCACTTGGAAAT 420  
DB 1988 AAAACACCAAAATGGCTTCACTTCAAAATCCAGGCAATTCCTAAGGTGGCACTTGGAAAT 2047  
QY 421 ACAGTCTGCAAGCAAGCTCACAACCTTGACCTCTGACCTGCTGCTCCGTCGGTCCAATG 480  
DB 2048 ACAGTCTGCAAGCAAGCTCACAACCTTGACCTCTGACCTGCTGCTCCGTCGGTCCAATG 2107  
QY 481 CTACCTGCTCCCAATTAAGTGAATTCGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCA 540  
DB 2108 CTACCTGCTCCCAATTAAGTGAATTCGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCA 2167  
QY 541 GGCCTCTGTGTATGCAATATTCGCAAGGAGCTTCCCAATTCCTCAGGCGCAGTG 600  
DB 2168 GGCCTCTGTGTATGCAATATTCGCAAGGAGCTTCCCAATTCCTCAGGCGCAGTG 2227  
QY 601 TCACAGCCCTGATGAATCAGTGAATGGAAACAGTTTACCTTGGAACTTACTTGGATAATG 660  
DB 2228 TCACAGCCCTGATGAATCAGTGAATGGAAACAGTTTACCTTGGAACTTACTTGGATAATG 2287  
QY 661 GAGCAGCTGCTGATGCTAATAAGATGACGGTGTCTTCTCAAGGTATTTTCAAACTTATG 720  
DB 2288 GAGCAGCTGCTGATGCTAATAAGATGACGGTGTCTTCTCAAGGTATTTTCAAACTTATG 2347  
QY 721 ACACGAATGGTATACAGTGTAAAGTTCGGGCTCTGGAGAGCTTAAACGAGCCAGAC 780  
DB 2348 ACACGAATGGTATACAGTGTAAAGTTCGGGCTCTGGAGAGCTTAAACGAGCCAGAC 2407  
QY 781 GGAGAGTGTATACCCAGCAGAGTGGAGCACTGTACATACCTGGCTGGATGAGATGATG 840  
DB 2408 GGAGAGTGTATACCCAGCAGAGTGGAGCACTGTACATACCTGGCTGGATGAGATGATG 2467  
QY 841 AAATCAATGGATTCACCAAGACCTGAAATTAATGAAGATGATGTTCAACACAAGCAAG 900  
DB 2468 AAATCAATGGATTCACCAAGACCTGAAATTAATGAAGATGATGTTCAACACAAGCAAG 2527  
QY 901 TGTGTTTACAGAGACATCCTCGGAGGCTCATTTGTGGCTTCTGATGTCCTCAAAATGCTC 960  
DB 2528 TGTGTTTACAGAGACATCCTCGGAGGCTCATTTGTGGCTTCTGATGTCCTCAAAATGCTC 2587  
QY 961 CCATACCTGATCTTCCACCTGGCCAAATCACCGACCTGAAGCGGAAATTCACGGGG 1020  
DB 2588 CCATACCTGATCTTCCACCTGGCCAAATCACCGACCTGAAGCGGAAATTCACGGGG 2647  
QY 1021 GCAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGGATGATTTATGACCATGAAACAGCTC 1080  
DB 2648 GCAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGGATGATTTATGACCATGAAACAGCTC 2707  
QY 1081 ACAAGTATATCATTCGAATAGTACAGTATTTCTGATCTCAGACAGAGTTCAATGAT 1140  
DB 2708 ACAAGTATATCATTCGAATAGTACAGTATTTCTGATCTCAGACAGAGTTCAATGAT 2767  
QY 1141 CTCTTCAAGTGAATACTACTGCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTT 1200  
DB 2768 CTCTTCAAGTGAATACTACTGCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTT 2827  
QY 1201 TGTTTTAAACCAAGAAACATTAATTTTGAATAATGGCAAGATCTTTTCAATGCTATTCAGG 1260  
DB 2828 TGTTTTAAACCAAGAAACATTAATTTTGAATAATGGCAAGATCTTTTCAATGCTATTCAGG 2887  
QY 1261 CTGTTGATAGTTCGATCTGAATCAGAAATATCAACATTCACAGAGTATCTTTGTTTA 1320  
DB 2888 CTGTTGATAGTTCGATCTGAATCAGAAATATCAACATTCACAGAGTATCTTTGTTTA 2947  
QY 1321 TTCCTCCACAGACTTCGGCCAGAGACACCTAGTCTCTGATGAAACGCTGCTGCTGCTTA 1380  
DB 2948 TTCCTCCACAGACTTCGGCCAGAGACACCTAGTCTCTGATGAAACGCTGCTGCTGCTTA 3007  
QY 1381 ATATTATATACAGACCACTTCTCTGGCAATTCACATTTTAAAAAATTAATGTGGAAGTGA 1440

DB 3008 ATATTATATACAGACCACTTCTCTGGCAATTCACATTTTAAAAAATTAATGTGGAAGTGA 3067  
QY 1441 TAGGAGAACTGCAGCTGTCAATAGCTAGGGCTGAATTTTGTCTCAGATAAAATAAAATAAA 1500  
DB 3068 TAGGAGAACTGCAGCTGTCAATAGCTAGGGCTGAATTTTGTCTCAGATAAAATAAAATAAA 3127  
QY 1501 TCATTATCTCTTTTGTGATTAATAAATTTTCTAATAATGTAATTTTAGACTTCTCTGTAGG 1560  
DB 3128 TCATTATCTCTTTTGTGATTAATAAATTTTCTAATAATGTAATTTTAGACTTCTCTGTAGG 3186  
QY 1561 GGGCATATATCAATATATATAGTATATATATATATATATATATATATATATATATATATAT 1620  
DB 3187 GGGCATATATCAATATATATAGTATATATATATATATATATATATATATATATATATATAT 3246  
QY 1621 ATATCAAAATGTAATTTTATAGACTTCTCTGTAGGGGGCGATAAAAATAAAATGCTTAACAAC 1680  
DB 3247 ATACTAATATGTAATTTTATAGACTTCTCTGTAGGGGGCGATAAAAATAAAATGCTTAACAAC 3306  
QY 1681 GTA 1683  
DB 3307 GTA 3309  
RESULT 13  
US-10-393-590-47  
; Sequence 47, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNOSTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; PRIOR FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 47  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-590-47  
Query Match 99.3%; Score 1671; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1682; Conservative 0; Mismatches 0; Indels 1; Gaps 1;  
QY 1 AACAAAGTGGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 60  
DB 1628 AACAAAGTGGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 1687  
QY 61 AGGAGCTGTCCAAATGACAGGAGCTTTACACATATGCTTCAGATCAAGTTTCAGAAACA 120  
DB 1688 AGGAGCTGTCCAAATGACAGGAGCTTTACACATATGCTTCAGATCAAGTTTCAGAAACA 1747  
QY 121 ATGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCT 180  
DB 1748 ATGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCT 1807  
QY 181 CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAAACAGCCAGTGGATGGAATGGCACAG 240  
DB 1808 CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAAACAGCCAGTGGATGGAATGGCACAG 1867  
QY 241 TGATCGTGGACAGCACCGCTGGGAAAGGACATTTTGTCTTATCATCCTTGGACAAACGACG 300  
DB 1868 TGATCGTGGACAGCACCGCTGGGAAAGGACATTTTGTCTTATCATCCTTGGACAAACGACG 1927  
QY 301 CTCCCCAAATCTCTCTCTGGGATCCAGTGGACAGAGCGGTGGCTTTGTAGTGGACA 360  
DB 1928 CTCCCCAAATCTCTCTCTGGGATCCAGTGGACAGAGCGGTGGCTTTGTAGTGGACA 1987  
QY 361 AAAACACCAAAATGGCTTCACTTCAAAATCCAGGCAATTCCTAAGGTGGCACTTGGAAAT 420







Db 2048 ACAGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTCTACGTCCTCCGCTGGTCCAATG 2107  
Qy 481 CTACCTCTGCTCCAAATTACAGTGACTTCCAAACGAAACAAGGACACCAAGCAAAATCCCCA 540  
Db 2108 CTACCTCTGCTCCAAATTACAGTGACTTCCAAACGAAACAAGGACACCAAGCAAAATCCCCA 2167  
Qy 541 GCCCTCTGGTAGTTTATGCAAAATATTGCGCAAGGAGCCTCCCAATTCACAGGCGCAGTG 600  
Db 2168 GCCCTCTGGTAGTTTATGCAAAATATTGCGCAAGGAGCCTCCCAATTCACAGGCGCAGTG 2227  
Qy 601 TCACAGCCCTGATTGAATCAGTGAATGGAACACAGTTTACCTTGGAACTACTGGGATAATG 660  
Db 2228 TCACAGCCCTGATTGAATCAGTGAATGGAACACAGTTTACCTTGGAACTACTGGGATAATG 2287  
Qy 661 GAGCAGGTGCTGATGCTACTAAGGATGACGGTGTCTTACTCAAGGTATTTTCAACAATTATG 720  
Db 2288 GAGCAGGTGCTGATGCTACTAAGGATGACGGTGTCTTACTCAAGGTATTTTCAACAATTATG 2347  
Qy 721 ACACGAATGGTAGATACAGTGTAAAGTGGGGCTCTGGGAGAGTTAAAGCGAGCCAGAC 780  
Db 2348 ACACGAATGGTAGATACAGTGTAAAGTGGGGCTCTGGGAGAGTTAAAGCGAGCCAGAC 2407  
Qy 781 CGAGAGTGATACCCAGCAGAGTGGGCACTGTACATACCTGCTGGTGGATTGAGATGATG 840  
Db 2408 GGAGAGTGATACCCAGCAGAGTGGGCACTGTACATACCTGCTGGTGGATTGAGATGATG 2467  
Qy 841 AAATCAATGGGAATCCACCAAGACCTGAAATTAATAAGGATGATGTTCAACAACAGCAAG 900  
Db 2468 AAATCAATGGGAATCCACCAAGACCTGAAATTAATAAGGATGATGTTCAACAACAGCAAG 2527  
Qy 901 TGTGTTTCAGAGAAATCCTCGGAGGCTCATTTGTGGGCTCATTTGTGGCTTCTGATGCCAAATGCTC 960  
Db 2528 TGTGTTTCAGAGAAATCCTCGGAGGCTCATTTGTGGGCTCATTTGTGGCTTCTGATGCCAAATGCTC 2587  
Qy 961 CCAATCCTGATCTCTCCACCTGGCCCAATCACCGACCTGAAGCGGAAATTCACGGG 1020  
Db 2588 CCAATCCTGATCTCTCCACCTGGCCCAATCACCGACCTGAAGCGGAAATTCACGGG 2647  
Qy 1021 GCAGTCTCATTAATCTGACTTGGACAGCTCTCGGGGATGATTTATGACCATGAAACAGCTC 1080  
Db 2648 GCAGTCTCATTAATCTGACTTGGACAGCTCTCGGGGATGATTTATGACCATGAAACAGCTC 2707  
Qy 1081 ACAAGTATATCATTCGAATAAGTACAAGTATTTCTTGATCTCAGAGCAAAAGTTCAATGAAT 1140  
Db 2708 ACAAGTATATCATTCGAATAAGTACAAGTATTTCTTGATCTCAGAGCAAAAGTTCAATGAAT 2767  
Qy 1141 CTCCTTCAAGTGAATACTACTCTCATCCCAAGGAGCCTGAGGAGTCTTTT 1200  
Db 2768 CTCCTTCAAGTGAATACTACTCTCATCCCAAGGAGCCTGAGGAGTCTTTT 2827  
Qy 1201 TGTTTAAACGAAACATTTACTTTTGAATGGCACAGATCTTTTCAATTGCTATTTCAGG 1260  
Db 2828 TGTTTAAACGAAACATTTACTTTTGAATGGCACAGATCTTTTCAATTGCTATTTCAGG 2887  
Qy 1261 CTGTTGATAAGGTTCGATCTGAAATCAGAAATATCCAACATTCACGAGTATCTTTGTTTA 1320  
Db 2888 CTGTTGATAAGGTTCGATCTGAAATCAGAAATATCCAACATTCACGAGTATCTTTGTTTA 2947  
Qy 1321 TTCCTCCACAGACTCGCCAGAGACACCTAGTCTCTGATGAAACGCTGCTTGTCTTA 1380  
Db 2948 TTCCTCCACAGACTCGCCAGAGACACCTAGTCTCTGATGAAACGCTGCTTGTCTTA 3007  
Qy 1381 ATATTCAATCAACAGCACCATTCTCGGCATTCACATTTTAAATAATGTTGAAGTGA 1440  
Db 3008 ATATTCAATCAACAGCACCATTCTCGGCATTCACATTTTAAATAATGTTGAAGTGA 3067  
Qy 1441 TAGGAGAACTGCAGTGTCAATAGCCTAGGCGTGAATTTTGTGCAGATAAATAAATAA 1500  
Db 3068 TAGGAGAACTGCAGTGTCAATAGCCTAGGCGTGAATTTTGTGCAGATAAATAAATAA 3127  
Qy 1501 TCATTCACTCTTTTTCGATTAATAAATTTTCTAAATGTAATTTTAGACTTCTCTGTAGG 1560  
Db 3128 TCATTCACTCTCTTTTTCGATTAATAAATTTTCTAAATGTAATTTTAGACTTCTCTGTAGG 3186

Qy 1561 GGGCGATATACATAAATGTATATAGTACATTTATATCTAAATGTATTCTCTAGGGGCGAT 1620  
Db 3187 GGGCGATATACATAAATGTATATAGTACATTTATATCTAAATGTATTCTCTAGGGGCGAT 3246  
Qy 1621 ATACTAAATGTATTTTACAGTCTCCCTGTAGGGGCGATAAATAAATGCTTAAACAACTGG 1680  
Db 3247 ATACTAAATGTATTTTACAGTCTCCCTGTAGGGGCGATAAATAAATGCTTAAACAACTGG 3306  
Qy 1681 GTA 1683  
Db 3307 GTA 3309

RESULT 15  
US-10-393-567-12  
; Sequence 12, Application US/10393567  
; Publication No. US20030194733A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: CANCER DIAGNOSTIC PANEL  
; FILE REFERENCE: CDS 269 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,567  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,667  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 12  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-567-12

Query Match 99.3%; Score 1671; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1682; Conservative 0; Mismatches 0; Indels 1; Gaps 1;  
Qy 1 AACAAAGTGGTGCCATCATCCACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 60  
Db 1628 AACAAAGTGGTGCCATCATCCACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 1687  
Qy 61 AGGAGCTGTCCAAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGAA 120  
Db 1688 AGGAGCTGTCCAAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGAA 1747  
Qy 121 ATGGCTCATTTATGCTTTTGGGGCCCTTTTCATCAGGAATGAGCTGCTCTCAGGCT 180  
Db 1748 ATGGCTCATTTATGCTTTTGGGGCCCTTTTCATCAGGAATGAGCTGCTCTCAGGCT 1807  
Qy 181 CCATCCAGCTTCAGAGTAAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCACAG 240  
Db 1808 CCATCCAGCTTCAGAGTAAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCACAG 1867  
Qy 241 TGATCGTGACAGCACCGTGGGAAAGGACATTTTGTTCCTTATCATCTGGAACAACCCAGC 300  
Db 1868 TGATCGTGACAGCACCGTGGGAAAGGACATTTTGTTCCTTATCACCTGGAACAACCCAGC 1927  
Qy 301 CTCGCCAAATCTTCTCTGGGATCCAGTGGGACAGAACAGGTGGCTTTGTAGTGACA 360  
Db 1928 CTCGCCAAATCTTCTCTGGGATCCAGTGGGACAGAACAGGTGGCTTTGTAGTGACA 1987  
Qy 361 AAAACACCAAAATGGCTTACCTCCAAATCCAGGCAATTCCTAAGGTGTGGCACTTGGAAAT 420  
Db 1988 AAAACACCAAAATGGCTTACCTCCAAATCCAGGCAATTCCTAAGGTGTGGCACTTGGAAAT 2047  
Qy 421 ACAGTCTGCAAGCAAGCTCACAACCTTGACCCCTGATCTGTCACGTCCTCGGTCCAAATG 480  
Db 2048 ACAGTCTGCAAGCAAGCTCACAACCTTGACCCCTGATCTGTCACGTCCTCGGTCCAAATG 2107  
Qy 481 CTACCTGCTCCAAATTCAGTGACTTCCAAAACGAAACAGGACACCAAGCAAAATTCCTCCA 540  
Db 2108 CTACCTGCTCCAAATTCAGTGACTTCCAAAACGAAACAGGACACCAAGCAAAATTCCTCCA 2167

QY	541	GCCTCTGTAGTATGCAATATTCGCCAAGGAGCCTCCCAATTCCTCAGGGCCAGTG	600
Db	2168	GCCTCTGTAGTATGCAATATTCGCCAAGGAGCCTCCCAATTCCTCAGGGCCAGTG	2227
QY	601	TCACAGCCCTGATGTAATCAGTGAATGGAACAAAGTTACCTTGGAACTACTTGGATAATG	660
Db	2228	TCACAGCCCTGATGTAATCAGTGAATGGAACAAAGTTACCTTGGAACTACTTGGATAATG	2287
QY	661	GAGCAGGTGCTGATGCTACTTAAGGATGACGGGTCTACTCAAGGTATTTCAACAATTATG	720
Db	2288	GAGCAGGTGCTGATGCTACTTAAGGATGACGGGTCTACTCAAGGTATTTCAACAATTATG	2347
QY	721	ACACGAATGGTAGATACTGTAAGTTCGGGGCTCTGGGAGAGTTAAACGAGCCAGAC	780
Db	2348	ACACGAATGGTAGATACTGTAAGTTCGGGGCTCTGGGAGAGTTAAACGAGCCAGAC	2407
QY	781	GGAGAGTGATACCCAGAGAGTGAGAGCTGTATACATCTGGCTGGATTGAGAAATGATG	840
Db	2408	GGAGAGTGATACCCAGAGAGTGAGAGCTGTATACATCTGGCTGGATTGAGAAATGATG	2467
QY	841	AAATACATGGAAATCCACCAGACCTGAAATTAATAAGGATGATGTTCAACACAAAGCAAG	900
Db	2468	AAATACATGGAAATCCACCAGACCTGAAATTAATAAGGATGATGTTCAACACAAAGCAAG	2527
QY	901	TGTGTTTCAGCAGAAACATCCTCGGAGGCTCATTTTGTGGCTTCTGATGTCCCAAAATGCTC	960
Db	2528	TGTGTTTCAGCAGAAACATCCTCGGAGGCTCATTTTGTGGCTTCTGATGTCCCAAAATGCTC	2587
QY	961	CCATACCTGATCTCTTCCCACTCGGCCAAATCAACGACCTGAAGCGGAAATTCACGGGG	1020
Db	2588	CCATACCTGATCTCTTCCCACTCGGCCAAATCAACGACCTGAAGCGGAAATTCACGGGG	2647
QY	1021	GCAGTCTCATTTAATCTGACTTGGAGAGCTCTCGGGAGTATGATCACCATGGAACAGCTC	1080
Db	2648	GCAGTCTCATTTAATCTGACTTGGAGAGCTCTCGGGAGTATGATCACCATGGAACAGCTC	2707
QY	1081	ACAAGTATATCATTCGAATAAGTACAAGTATTTCTTGATCTCAGAGACAAAGTTCAATGAAT	1140
Db	2708	ACAAGTATATCATTCGAATAAGTACAAGTATTTCTTGATCTCAGAGACAAAGTTCAATGAAT	2767
QY	1141	CTCTTCAAGTGAATACTACTGCTCTCATCCCAAGGAGCCAACTCTGAGGAAGTCTTTT	1200
Db	2768	CTCTTCAAGTGAATACTACTGCTCTCATCCCAAGGAGCCAACTCTGAGGAAGTCTTTT	2827
QY	1201	TGTTTAAACCGAAGAACATTTCTTTGAAATGCGACAGATCTTTTCATTGCTATTTCAGG	1260
Db	2828	TGTTTAAACCGAAGAACATTTCTTTGAAATGCGACAGATCTTTTCATTGCTATTTCAGG	2887
QY	1261	CTGTTGATAAGGTCGATCTGAAATCAGAAATATCCAACATTCGACGAGTATCTTTGTTTA	1320
Db	2888	CTGTTGATAAGGTCGATCTGAAATCAGAAATATCCAACATTCGACGAGTATCTTTGTTTA	2947
QY	1321	TTCTCTCCACAGACTCGGCCAGAGACACCTAGTCTGTGATGAACAGTCTGCTCTTGTCTTA	1380
Db	2948	TTCTCTCCACAGACTCGGCCAGAGACACCTAGTCTGTGATGAACAGTCTGCTCTTGTCTTA	3007
QY	1381	ATATTTATATCAACAGCACCATTCTCGCATTCACATTTTAAATATATGTTGGAAGTGA	1440
Db	3008	ATATTTATATCAACAGCACCATTCTCGCATTCACATTTTAAATATATGTTGGAAGTGA	3067
QY	1441	TAGGAGAACTGCAGCTGTCAATAGGCTAGGGCTGAATTTTGTGATGATAAATAAATAA	1500
Db	3068	TAGGAGAACTGCAGCTGTCAATAGGCTAGGGCTGAATTTTGTGATGATAAATAAATAA	3127
QY	1501	TCATTCATCTTTTGTGATTAATAAATTTCTAAATATGTAATTTTACACTTCTGTAGG	1560
Db	3128	TCATTCATCTTTTGTGATTAATAAATTTCTAAATATGTAATTTTACACTTCTGTAGG	3186
QY	1561	GGCGGATATACATGATATAGTACATTTATGTAATGTAATGTAATTTCTGTAGGGGGCGAT	1620
Db	3187	GGCGGATATACATGATATAGTACATTTATGTAATGTAATGTAATTTCTGTAGGGGGCGAT	3246

QY	1621	ATACATAATGTATTTTAGACTTCTCTGTAGGGGGCGATATAAATAAATCTCTAAACAACTGG	1680
Db	3247	ATACATAATGTATTTTAGACTTCTCTGTAGGGGGCGATATAAATAAATCTCTAAACAACTGG	3306
QY	1681	GTA	1683
Db	3307	GTA	3309

Search completed: April 24, 2004, 06:38:21  
Job time : 903.673 secs

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OM nucleic - nucleic search, using sw model

Run on: April 24, 2004, 00:33:00 ; Search time 154.702 Seconds  
(without alignments)  
6037.311 Million cell updates/sec

Title: US-09-049-696-19

Perfect score: 1683

Sequence: 1 AACAAAGTGGTCCCATCATC.....AAATGCTAAACAACCTGGGTA 1683

Scoring table: IDENTITY NUC

Gapop 10\_0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:\*

1: /cgn2\_6/prodata/2/ina/5A COMB.seq:\*

2: /cgn2\_6/prodata/2/ina/5B COMB.seq:\*

3: /cgn2\_6/prodata/2/ina/6A COMB.seq:\*

4: /cgn2\_6/prodata/2/ina/6B COMB.seq:\*

5: /cgn2\_6/prodata/2/ina/PCTUS COMB.seq:\*

6: /cgn2\_6/prodata/2/ina/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1676.6	99.6	3007	4	US-09-193-562D-27
2	1512	89.8	1512	4	US-09-016-434-850
3	1467.4	87.2	2745	4	US-09-623-624-5
4	942.6	56.0	2931	4	US-09-623-624-1
5	790.8	47.0	878	1	US-08-469-667-8
6	790.8	47.0	878	4	US-09-224-110-8
7	790.8	47.0	878	5	PCT-US95-07289-8
8	673.8	40.0	3043	4	US-09-049-698-16
9	673.8	40.0	3181	4	US-09-049-698-18
10	441.4	26.2	1081	4	US-09-016-434-928
11	441.4	26.2	1399	4	US-09-049-698-17
12	414.4	24.6	3317	4	US-09-193-562D-1
13	398.8	23.7	3022	4	US-09-193-562D-33
14	368.2	21.9	3418	4	US-09-193-562D-29
15	304	18.1	2784	4	US-09-643-597-168
16	304	18.1	2784	4	US-09-480-884A-168
17	304	18.1	2784	4	US-09-542-615A-168
18	304	18.1	2784	4	US-09-606-421B-168
19	301.6	17.9	2773	4	US-09-643-597-358
20	301.6	17.9	3156	4	US-09-919-172-86
21	301.6	17.9	3190	4	US-09-623-624-3
22	301.6	17.9	3951	4	US-09-643-597-160
23	301.6	17.9	3951	4	US-09-480-884A-160
24	301.6	17.9	3951	4	US-09-542-615A-160
25	301.6	17.9	3951	4	US-09-606-421B-160
26	301.6	17.9	3951	4	US-09-221-107-160
27	301.6	17.9	8031	4	US-09-643-597-254

ALIGNMENTS

RESULT 1

US-09-193-562D-27

; Sequence 27, Application US/09193562D

; Patent No. 6309857

; GENERAL INFORMATION:

; APPLICANT: Pauli, Benedicht U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules

; FILE REFERENCE: 18617.0052

; CURRENT APPLICATION NUMBER: US/09/193,562D

; CURRENT FILING DATE: 1998-11-17

; PRIOR APPLICATION NUMBER: US/60/065,922

; PRIOR FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 27

; LENGTH: 3007

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-193-562D-27

Query Match 99.6%; Score 1676.6; DB 4; Length 3007;  
Best Local Similarity 99.8%; Pred. No. 0;  
Matches 1679; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY	1	AACAAAGTGGTCCCATCATC	CACAGTCGCTTTGGGGCCCTCTG	CAGCTCAAGAACTAG	60
DB	1323	AACAAAGTGGTCCCATCATC	CACAGTCGCTTTGGGGCCCTCTG	CAGCTCAAGAACTAG	1382
QY	61	AGGAGCTGTCCAAATGAC	GAGGTTTACAGACATATGCTT	CAGATCAAGTTCAGAACA	120
DB	1383	AGGAGCTGTCCAAATGAC	GAGGTTTACAGACATATGCTT	CAGATCAAGTTCAGAACA	1442
QY	121	ATGGCCTCATTGATGCTTT	TGGGGCCCTTTCATCAGAAAT	GAGCTGTCTCTCAGCGCT	180
DB	1443	ATGGCCTCATTGATGCTTT	TGGGGCCCTTTCATCAGAAAT	GAGCTGTCTCTCAGCGCT	1502
QY	181	CCATCAGCTTCAGAGTAAG	GGATTAAACCCCTCCAGAAC	CCCGTGGATGAATGGCACAG	240
DB	1503	CCATCAGCTTCAGAGTAAG	GGATTAAACCCCTCCAGAAC	CCCGTGGATGAATGGCACAG	1562
QY	241	TCATCGTGACAGCACCGT	GGAAGGACATTTGTTTCTT	ATCACCCTGGACACCCAGC	300
DB	1563	TCATCGTGACAGCACCGT	GGAAGGACATTTGTTTCTT	ATCACCCTGGACACCCAGC	1622
QY	301	CTCCCCAAATCTTCTCT	CTGGATCCAGTGGACAGAA	GGTGGCTTTGTAGTGACA	360
DB	1623	CTCCCCAAATCTTCTCT	CTGGATCCAGTGGACAGAA	GGTGGCTTTGTAGTGACA	1682
QY	361	AAAAACCAAAATGGCTTA	CTCCAAATCCAGGCAATTC	TAAGGTGGCACTTGGAAAT	420

Db 1683 AAAACACCAAAATGGCTACCTCCAAATCCAGGCAATGCTAAGGTGGCACTTGGAAT 1742  
QY 421 ACAGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTCTACGTCGCGTGGTCCAATG 480  
Db 1743 ACAGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTCTACGTCGCGTGGTCCAATG 1802  
QY 481 CTACCTGCTCCTCAATATACAGTGACTTCCAAACGAAACAAAGGACACCAAGCAATTCGCCA 540  
Db 1803 CTACCTGCTCCTCAATATACAGTGACTTCCAAACGAAACAAAGGACACCAAGCAATTCGCCA 1862  
QY 541 GGCCTCTGTAAGTATGCAATATTCGCAAGGAGCTCCCAATTCACAGGCGCAGTG 600  
Db 1863 GGCCTCTGTAAGTATGCAATATTCGCAAGGAGCTCCCAATTCACAGGCGCAGTG 1922  
QY 601 TCACAGCCCTGATTGNAATCAGTGAATGGAAGAAACAGTTACCTTGGAACTACTCGGATAATG 660  
Db 1923 TCACAGCCCTGATTGNAATCAGTGAATGGAAGAAACAGTTACCTTGGAACTACTCGGATAATG 1982  
QY 661 GAGCAGGTCTGATGCTACTAAGGATGAGGTGTCTACTCAAGGTATTTCAACAATTTATG 720  
Db 1983 GAGCAGGTCTGATGCTACTAAGGATGAGGTGTCTACTCAAGGTATTTCAACAATTTATG 2042  
QY 721 ACAAGTGTGTAGATACAGTGTAAAAGTGGGGCTCTGGAGGAGTTAACGAGCCAGAC 780  
Db 2043 ACACGAATGGTAGATACAGTGTAAAAGTGGGGCTCTGGAGGAGTTAACGAGCCAGAC 2102  
QY 781 GGAGAGTATACCCAGAGAGTGGAGACTGTATACCTGGCTGGTGGATTGAGATGATG 840  
Db 2103 GGAGAGTATACCCAGAGAGTGGAGACTGTATACCTGGCTGGTGGATTGAGATGATG 2162  
QY 841 AAATACATGGAATCCACCAAGACCTGAAATTAATAAGGATGATGTTCAACAACAAGCAAG 900  
Db 2163 AAATACATGGAATCCACCAAGACCTGAAATTAATAAGGATGATGTTCAACAACAAGCAAG 2222  
QY 901 TGTGTTTCAGCAGAAACATCCTCGGAGGCTCAATTTGTGGCTTCTGATGTCCCAATGCTC 960  
Db 2223 TGTGTTTCAGCAGAAACATCCTCGGAGGCTCAATTTGTGGCTTCTGATGTCCCAATGCTC 2282  
QY 961 CCATACCTGATCTCTCCACCTGGCCAAATCACCAGCTGAAGCGGGAATTCAGGGG 1020  
Db 2283 CCATACCTGATCTCTCCACCTGGCCAAATCACCAGCTGAAGCGGGAATTCAGGGG 2342  
QY 1021 CGAGTCTCATTAATCTGACTGGACAGCTCTCGGGGATGATTATGACCATGGAACAGCTC 1080  
Db 2343 CGAGTCTCATTAATCTGACTGGACAGCTCTCGGGGATGATTATGACCATGGAACAGCTC 2402  
QY 1081 ACAAGTATATCATTCGAATAAGTACAAGTATCTTTGATCTCAGACAAAGTTCAATGAAT 1140  
Db 2403 ACAAGTATATCATTCGAATAAGTACAAGTATCTTTGATCTCAGACAAAGTTCAATGAAT 2462  
QY 1141 CTCCTTCAAGTGAATACTGCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTT 1200  
Db 2463 CTCCTTCAAGTGAATACTGCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTT 2522  
QY 1201 TGTTTAAACCAAAACATTTACTTTTGAATATGGACAGACTCTTTTCAATGCTATTCAGG 1260  
Db 2523 TGTTTAAACCAAAACATTTACTTTTGAATATGGACAGACTCTTTTCAATGCTATTCAGG 2582  
QY 1261 CTGTTGATAAGTCTGATCTGAAATCAGAAATATCAACATTCACGAGTATCTTTGTTTA 1320  
Db 2583 CTGTTGATAAGTCTGATCTGAAATCAGAAATATCAACATTCACGAGTATCTTTGTTTA 2642  
QY 1321 TTCCTTCCAGACTCGGCCAGAGACACCTAGTCTCTGATGAAGAGCTGCTCTCTTCTCTTA 1380  
Db 2643 TTCCTTCCAGACTCGGCCAGAGACACCTAGTCTCTGATGAAGAGCTGCTCTCTTCTCTTA 2702  
QY 1381 ATATTTCATATCAACAGCACCATTCTTGGCATTTCACATTTTAAATTAATGTGGAAGTGA 1440  
Db 2703 ATATTTCATATCAACAGCACCATTCTTGGCATTTCACATTTTAAATTAATGTGGAAGTGA 2762  
QY 1441 TAGGAGAACTGCAGCTGTCAATAGCTAGGGCTGAATTTTGTCTCAGATAAATAAATAA 1500  
Db 2763 TAGGAGAACTGCAGCTGTCAATAGCTAGGGCTGAATTTTGTCTCAGATAAATAAATAA 2822

QY 1501 TCATTTCATCTCTTTTGTGATTATATAAAATTTTCTAAAAATGTATTTTAGACTTCTCTGTAGG 1560  
Db 2823 TCATTTCATCTCTTTTGTGATTATATAAAATTTTCTAAAAATGTATTTTAGACTTCTCTGTAGG 2882  
QY 1561 GGGCGATATCTAAATGTATATAGTACATTTTATATACTAAATGTATTTCTGTAGGGGGCGAT 1620  
Db 2883 GGGCGATATCTAAATGTATATAGTACATTTTATATACTAAATGTATTTCTGTAGGGGGCGAT 2942  
QY 1621 ATACTAAATGTATTTTAGACTTCTGTAGGGGGCGATAAAAATAAATGCTAAACAACCTGG 1680  
Db 2943 ATACTAAATGTATTTTAGACTTCTGTAGGGGGCGATAAAAATAAATGCTAAACAACCTGG 3002  
QY 1681 GTA 1683  
Db 3003 GGA 3005

## RESULT 2

US-09-016-434-850  
; Sequence 850, Application US/09016434  
; Patent No. 6500938  
; GENERAL INFORMATION:  
; APPLICANT: Janice Au-Young  
; APPLICANT: Jeffrey J. Seilhamer  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION  
; NUMBER OF SEQUENCES: 1490  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/016.434  
; FILING DATE: HEREWITH  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Zeller, Karen J.  
; REGISTRATION NUMBER: 37,071  
; REFERENCE/DOCKET NUMBER: PA-0002 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (650) 855-0555  
; TELEFAX: (650) 845-4166  
; INFORMATION FOR SEQ ID NO: 850:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1512 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: COLN00T01  
; CLONE: 608819  
US-09-016-434-850

Query Match 89.8%; Score 1512; DB 4; Length 1512;

Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1512; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AACAAAGTGGTCCCATCATCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 60  
Db 1 AACAAAGTGGTCCCATCATCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 60

QY 61 AGGAGCTGTCCAAATGACAGGAGGTTTACAGACATATGCTTTCAGATCAAGTTTCAGAA 120  
DB |||||  
QY 61 AGGAGCTGTCCAAATGACAGGAGGTTTACAGACATATGCTTTCAGATCAAGTTTCAGAA 120  
DB |||||  
QY 121 ATGGCTCATTCATGCTTTTGGGGCCCTTTTCATCAGGAAATGAGCTGCTCTCAGCGT 180  
DB |||||  
QY 121 ATGGCTCATTCATGCTTTTGGGGCCCTTTTCATCAGGAAATGAGCTGCTCTCAGCGT 180  
DB |||||  
QY 181 CCATCCAGCTTCAGAGTAAAGGATTAACCTCCAGAAACAGCCAGTGGATGGAATGACAG 240  
DB |||||  
QY 181 CCATCCAGCTTCAGAGTAAAGGATTAACCTCCAGAAACAGCCAGTGGATGGAATGACAG 240  
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QY 241 TGATCGTGACAGCACCGTGGAAAGGACATTTTGTCTTATCACTTGGAAACAGCCAGC 300  
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QY 241 TGATCGTGACAGCACCGTGGAAAGGACATTTTGTCTTATCACTTGGAAACAGCCAGC 300  
DB |||||  
QY 301 CTCCTCCAAATCTTCTCTGGGATCCAGTGGACAGAGCAAGGTGGCTTTGTAGTGGACA 360  
DB |||||  
QY 301 CTCCTCCAAATCTTCTCTGGGATCCAGTGGACAGAGCAAGGTGGCTTTGTAGTGGACA 360  
DB |||||  
QY 361 AAAACACCAAAATGGCTTACCTCCAAATCCAGGCAATGCTTAAGTTGGCACTTGGAAAT 420  
DB |||||  
QY 361 AAAACACCAAAATGGCTTACCTCCAAATCCAGGCAATGCTTAAGTTGGCACTTGGAAAT 420  
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QY 421 ACAGTCTGCAAGCAAGCTCACAAACCTTGGACCTGACTGTCTGCTCCCGTGGTCCAATG 480  
DB |||||  
QY 421 ACAGTCTGCAAGCAAGCTCACAAACCTTGGACCTGACTGTCTGCTCCCGTGGTCCAATG 480  
DB |||||  
QY 481 CTACCTGCTCCAAATTCAGTGAAGTCTCCAAACGAAACAGGACAGCAAAATTCCTCCA 540  
DB |||||  
QY 481 CTACCTGCTCCAAATTCAGTGAAGTCTCCAAACGAAACAGGACAGCAAAATTCCTCCA 540  
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QY 541 GGCCTCTGTAGTTATGCAATATTCGCCAAGGAGCTCCCAATTCACGGGCGCAGT 600  
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QY 541 GGCCTCTGTAGTTATGCAATATTCGCCAAGGAGCTCCCAATTCACGGGCGCAGT 600  
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QY 601 TCACAGCCCTGATTGAATCAGTGAATGGAAGGAAACAGTTTACCTTGGAACTTCTGGATAATG 660  
DB |||||  
QY 601 TCACAGCCCTGATTGAATCAGTGAATGGAAGGAAACAGTTTACCTTGGAACTTCTGGATAATG 660  
DB |||||  
QY 661 GAGCAGGTGCTGATGCTACTAAGATGACGGTGTCTACTCAAGGTATTTTCAACACTTATG 720  
DB |||||  
QY 661 GAGCAGGTGCTGATGCTACTAAGATGACGGTGTCTACTCAAGGTATTTTCAACACTTATG 720  
DB |||||  
QY 721 ACACGAATGGTAGATACAGTGTAAAGTGGGAGGCTCTGGAGAGGTTAACGCGACGAC 780  
DB |||||  
QY 721 ACACGAATGGTAGATACAGTGTAAAGTGGGAGGCTCTGGAGAGGTTAACGCGACGAC 780  
DB |||||  
QY 781 GGAGAGTGATACCCAGCAGAGTGGAGCACTGTACATACCTGGCTGGATTGAGAATGATG 840  
DB |||||  
QY 781 GGAGAGTGATACCCAGCAGAGTGGAGCACTGTACATACCTGGCTGGATTGAGAATGATG 840  
DB |||||  
QY 841 AAATCAATGGAATCCACCAAGCTGAAATTAATGAAGTATGTTTCAACACAGCAAG 900  
DB |||||  
QY 841 AAATCAATGGAATCCACCAAGCTGAAATTAATGAAGTATGTTTCAACACAGCAAG 900  
DB |||||  
QY 901 TGTTGTTTACAGACATCTCTGGGAGGCTATTTGCTGGCTTCTGATGTCCTCAATGCTC 960  
DB |||||  
QY 901 TGTTGTTTACAGACATCTCTGGGAGGCTATTTGCTGGCTTCTGATGTCCTCAATGCTC 960  
DB |||||  
QY 961 CCATACCTGATCTCTTCCCACTGGCCAAATCACCGACCTGAAAGGCGGAAATTCACGGGG 1020  
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QY 961 CCATACCTGATCTCTTCCCACTGGCCAAATCACCGACCTGAAAGGCGGAAATTCACGGGG 1020  
DB |||||  
QY 1021 GCAGTCTCAATTAATCTGACTTGGACAGCTCTCTGGGATGATTAATGACCAAGCAAGCTC 1080  
DB |||||  
QY 1021 GCAGTCTCAATTAATCTGACTTGGACAGCTCTCTGGGATGATTAATGACCAAGCAAGCTC 1080  
DB |||||  
QY 1081 ACAAGTATATCTCGAATAAGTACAGTATTTCTTGATCTCAGACAGGTTCAATGAT 1140  
DB |||||  
QY 1081 ACAAGTATATCTCGAATAAGTACAGTATTTCTTGATCTCAGACAGGTTCAATGAT 1140  
DB |||||

QY 1141 CTCCTCAAGTGAATCTACTGCTCTCATCCCAAGAGCAACTCTCTGAGGAGTCTTTT 1200  
DB |||||  
QY 1141 CTCCTCAAGTGAATCTACTGCTCTCATCCCAAGAGCAACTCTCTGAGGAGTCTTTT 1200  
DB |||||  
QY 1201 TGTTTAAACCAAGAAACATTTCTTTGAAATGACAGATCTTTTTCATTGCTATTTCAG 1260  
DB |||||  
QY 1201 TGTTTAAACCAAGAAACATTTCTTTGAAATGACAGATCTTTTTCATTGCTATTTCAG 1260  
DB |||||  
QY 1261 CTGTTGATAAGTCTGCTGAAATCAGAAATATCAACATTCACGAGTATCTTTGTTT 1320  
DB |||||  
QY 1261 CTGTTGATAAGTCTGCTGAAATCAGAAATATCAACATTCACGAGTATCTTTGTTT 1320  
DB |||||  
QY 1321 TTCCTCCACAGACTCCGCCAGAGACACCTAGTCTCTGATGAAACGCTCTCTTGTCTTA 1380  
DB |||||  
QY 1321 TTCCTCCACAGACTCCGCCAGAGACACCTAGTCTCTGATGAAACGCTCTCTTGTCTTA 1380  
DB |||||  
QY 1381 ATATTTCATATCAACAGCACCATTCTGCGCATTCACATTTTAAATAATATGTGGAAGTGA 1440  
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QY 1381 ATATTTCATATCAACAGCACCATTCTGCGCATTCACATTTTAAATAATATGTGGAAGTGA 1440  
DB |||||  
QY 1441 TAGGAGAACTGCAGCTGTCAATAGCTAGGCTGAAATTTTGTGATGATAATAATAA 1500  
DB |||||  
QY 1441 TAGGAGAACTGCAGCTGTCAATAGCTAGGCTGAAATTTTGTGATGATAATAATAA 1500  
DB |||||  
QY 1501 TCATTTCATCTTT 1512  
DB |||||  
QY 1501 TCATTTCATCTTT 1512  
DB |||||

## RESULT 3

US-09-623-624-5  
; Sequence 5, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 2745  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS

; LOCATION: (1) ..(2742)									
US-09-623-624-5									
Query Match 87.2%; Score 1467.4; DB 4; Length 2745;									
Best Local Similarity 99.9%; P: Mismatches 1; Indels 0; Gaps 0;									
Matches 1468; Conservative 0;									
QY	1	AACAAAGTGGTCCCATCATCCACACAGTCGCTTTGGGGCCCTCTCAGCTCAAGAACTAG	60						
DB	1277	AACAAAGTGGTCCCATCATCCACACAGTCGCTTTGGGGCCCTCTCAGCTCAAGAACTAG	1336						
QY	61	AGGAGCTGTCCAAAATGACAGGAGGTTTACAGACATATGCTTTTTCAGATCAAGTTTCAGAA	120						
DB	1337	AGGAGCTGTCCAAAATGACAGGAGGTTTACAGACATATGCTTTTTCAGATCAAGTTTCAGAA	1396						
QY	121	ATGGCCTCATGATGCTTTTGGGGCCCTTTTATCAGGAAATGGAGCTGTCTCTCAGCGCT	180						
DB	1397	ATGGCCTCATGATGCTTTTGGGGCCCTTTTATCAGGAAATGGAGCTGTCTCTCAGCGCT	1456						
QY	181	COATCCAGCTTGAGAGTAAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGCCACAG	240						
DB	1457	COATCCAGCTTGAGAGTAAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGCCACAG	1516						
QY	241	TGATCGTGACAGCACCGTGGGAAAGGACACTTTTCTTATCACCTGGACAAAGCCAGC	300						
DB	1517	TGATCGTGACAGCACCGTGGGAAAGGACACTTTTCTTATCACCTGGACAAAGCCAGC	1576						
QY	301	CTCCCAAATCTTCTCTGGGATCCAGTGGACAGAGCAAGGTGGCTTTTGTAGTGGACA	360						
DB	1577	CTCCCAAATCTTCTCTGGGATCCAGTGGACAGAGCAAGGTGGCTTTTGTAGTGGACA	1636						
QY	361	AAACACCAAAATGGCTTACCTCCAAATCCAGGACATTCCTAAGCTTGGCACTTGGAAAT	420						
DB	1637	AAACACCAAAATGGCTTACCTCCAAATCCAGGACATTCCTAAGCTTGGCACTTGGAAAT	1696						
QY	421	ACAGCTCTGCAACAAAGCTCACAAACCTTGACCTGACTGTACGTCCTGGTCCCAATG	480						
DB	1697	ACAGCTCTGCAACAAAGCTCACAAACCTTGACCTGACTGTACGTCCTGGTCCCAATG	1756						
QY	481	CTACCTGCTGCTCAATATACAGTGACTTCCAAACGAAACAGGACACCGACAAATTC	540						
DB	1757	CTACCTGCTGCTCAATATACAGTGACTTCCAAACGAAACAGGACACCGACAAATTC	1816						
QY	541	GCCTCTGGTGTATGCAATATTCGCAAGGAGCTCCCAATTCCTCAGGGCCAGTG	600						
DB	1817	GCCTCTGGTGTATGCAATATTCGCAAGGAGCTCCCAATTCCTCAGGGCCAGTG	1876						
QY	601	TCACAGCCCTGATGTAATCAGTGAATGGAAACAGTTTACCTTGGAACTACTTGGATAATG	660						
DB	1877	TCACAGCCCTGATGTAATCAGTGAATGGAAACAGTTTACCTTGGAACTACTTGGATAATG	1936						
QY	661	GAGCAGGTGCTGATGCTACTAAGATGACGGTGTCTCTCAAGAGTATTTTCAACATTATG	720						
DB	1937	GAGCAGGTGCTGATGCTACTAAGATGACGGTGTCTCTCAAGAGTATTTTCAACATTATG	1996						
QY	721	ACACCAATGGTATACAGTGTAAAGTTCGGGCTCTGGGAGGTAAACGAGCCAGC	780						
DB	1997	ACACCAATGGTATACAGTGTAAAGTTCGGGCTCTGGGAGGTAAACGAGCCAGC	2056						
QY	781	GGAGAGTGATACCCAGCAGAGTGAGCACTGTACATACCTGGCTGGATTGAGAAATGATG	840						
DB	2057	GGAGAGTGATACCCAGCAGAGTGAGCACTGTACATACCTGGCTGGATTGAGAAATGATG	2116						
QY	841	AAATCAATGGAATCCACCAAGCTGAAATTAATAAGGATGATGTTTCAACACAGCAAG	900						
DB	2117	AAATCAATGGAATCCACCAAGCTGAAATTAATAAGGATGATGTTTCAACACAGCAAG	2176						
QY	901	TGTGTTTTCAGCAGACATCTCGGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGCTC	960						
DB	2177	TGTGTTTTCAGCAGACATCTCGGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGCTC	2236						
QY	961	CCATACCTGATCTCTTCCCACTGGCCAAATCACCGACCTGAAGCGGGAATTCACGGGG	1020						

RESULT 4  
US-09-623-624-1  
; Sequence 1, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 1  
LENGTH: 2931  
TYPE: DNA  
ORGANISM: Mus musculus  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (8)..(2746)  
US-09-623-624-1

Query Match 56.0%; Score 942.6; DB 4; Length 2931;

Best Local Similarity 76.9%; Pred. No. 6.6e-286;

Matches 1212; Conservative 0; Mismatches 339; Indels 26; Gaps 4;

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QY 1 AACAAAGTGGTGCATCCACACAGTCGCTTTGGGGCCCTCTGAGCTCAGAACTAG 60
DB 1287 AGCAGAGCGGGGCCATCATCCATACAGTGGCCCTGGGACCGGCTGCGCTAAGAGCTTG 1346
QY 61 AGGAGCTGTCCTAAATGACAGGAGGTTTACAGACATATCTTCAGATCAAGTTCAGAACA 120
DB 1347 AGCAGCTGTCCAAATGACAGGAGGCTTCAGACATATCTTCGGATCAGGTTTCAGAA 1406
QY 121 ATGGCCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGAGCTGTCTCTCAGCGCT 180
DB 1407 ATGGCTCTTGTGATGCTTTTCGAGCACTCTCTCAGGAAATGCGGCGATCGCTCAGCACT 1466
QY 181 CCATCAGCTTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGTGGAATGGACACAG 240
DB 1467 CCATCAGCTGGAGAGCAGGGAGTTAATCTCCAGAAATACCAATGGAATGGCTCAG 1526
QY 241 TGATCGTGCAGACAGCCGTTGGGAGGACACTTTGTTCTTATCACCCTGGACACAGCAGC 300
DB 1527 TGATCGTGCAGACAGCTCGGTGGGCAAGGACACTTTGTTCTTATCACCCTGGACACAGC 1586
QY 301 CTCCTCCAAATCTCTCTGGGATCCAGTGGACAGAAAGTGGCTTTGTAGTGGACA 360
DB 1587 CTCCTACATATTTATCTGGGATCCAGCGGAGTGGAAACAAATGTTTATCTAGACA 1646
QY 361 AAAACACCAAAATGGCTACCTCCAAATCCAGGCAATTCCTAAGTGGCACTTGGAAAT 420
DB 1647 CAACCACTAAGTGGCTACCTCCAAATCCAGGCAAGGCTAAGTGGCTTTGGAAAT 1706
QY 421 ACAGTCTGCAAGCAGCTCACAACCTTGACCTGACTGCTGAGTCCGCTGGCTCAATG 480
DB 1707 ACAGCAATCAAGCGAGCTCAGACACTCTCACCTTGACTGCTGCTCCGCTGAGCAAGT 1766
QY 481 CTACCTGCTGCTCCAAATACAGTGACTTCCAAACGAAACAGGACACAGCAAAATCCCA 540
DB 1767 CTACCTGCTGCTTATACAGTGACCCCGGTAGTGAATGAACACAGGAAATTCCTCA 1826
QY 541 GCCCTGCTGCTGATGTAATGCAATATTCGCCAAGGAGCTCCCAATTCAGGGCCAGTG 600
DB 1827 GCCCTGTAACAGTGATGCAAGCATTCGCCAAGGAGCTCGCTATTCAGGGCCAGCG 1886
QY 601 TCACAGCCCTGATGTAATCAGTGAATGGAAGAAACAGTTACCTTGGNACTACTGGATAAG 660
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QY 661 GAGCAGGCTGCTCATGCTACTAAGGATGACGGGTCTACTCAAGGTATTTCACAACTTATG 720
DB 1947 GAGCAGGCTGCTGATGCTCAAGAAATGATGGTGTCTACTCAAGTTTTTTTACAGCTTTT 2006
QY 721 ACACGAATGGTATGATACAGTGTAAAGTGGGGCTCTGGGAGAGTTAACGCGCCAGAC 780
DB 2007 ATGCAAAATGGTATACAGCGTTTAAATATGGCTCTGGGAGAGTCACTTCAGACAGAC 2066
QY 781 GGAGAGTGTATCCCGACAGAGTGGAGCACTGTATACATCTGCTGGATGGATGATGATG 840
DB 2067 AGAGAGCAGCAGCTCCGAAAGAACAGAGCCATGTACATAGATGCTGGATGGAGTGGTG 2126
QY 841 AATACAAATGGATCCACCAAGACCTGAAATTAATGAAGATGATGTTCACACAGCAG 900
DB 2127 AAGTAAGATGAACCCACCGCTCTGAAACTA-----GTTATGTTCAAGCAAGCAGC 2180
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QY 901 TGTGTTTCAGCAGAACATCTCGGAGGCTCATTTGTGGCTTCTGATGCTCC---CAATG 957
DB 2181 TGTGTTTCAGCAGAACATCTTCAGGGGATCGTTTGTGGCCCACTTCCCGCGCAGCAG 2240
QY 958 CTCCCATACCTGATCTCTTCCCACTGGGCAAAATCACCGACCTGGAAGGCGGAAATTCAG 1017
DB 2241 CTCCCATCTGATCTCTTCCCACTGGGCAAAATCACCGACCTGGAAGGCGGAGATCCA 2300
QY 1018 GGGCAGCTCTAATTAATCTGACTTGGACAGCTCTCTGGGATGATTAATGACCATGGAACAG 1077
DB 2301 GGCAGAACCTGGTGAATCTGACGTGGAGCGCTCTCTGGGATGACTACGACCGGAGAG 2360
QY 1078 CTCACAGTATATCATTCGAATAAGTACAAATATCTTCATCTCAGACAGCAAGTTCAAT 1137
DB 2361 CTTCCAACTACATCATCCGAATGAGCAGCAGTATCGTTGATCTTCAGGGACCACTCAAC 2420
QY 1138 AATCTCTTCAAGTGAATCTACTGCTCTCATCCCAAAGGAAGCAACTCTGAGGAAAGTCT 1197
DB 2421 CTTCACTCCAAGTGAACACTACCGGTCTTATCCCAAAGAGGCCAGCTCTGAGGAAATCT 2480
QY 1198 TTTTGTGTTAAACCAAGAAACATTTACTTTTGAATAATGGCACAGATCTTTTCATTGCTATTC 1257
DB 2481 TTGAGTTTGAACCTGGGAGGCAACACTTTTGGGAAATGGCACAGATATCTTTCATTGCTATTC 2540
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QY 1318 TTATTCCTCCACAGACTCCGCCAGACAGACTAGTCTCATGAACAGCTGCTCTCTTGTGTC 1377
DB 2601 TCATCCCTCCCTCAG-----GAGCCGCCCATTCGCCAAGACTCACTCCCTCTGTC 2651
QY 1378 CTAATATTCATATCAACAGCACCATTCCTGGCATTCACATTTTAAATAATATGTTGAAGT 1437
DB 2652 CTGACATCAGCATCAACAGCACCATTCCTGGCATTCACATTCCTGGAATAATGTTGAAGT 2711
QY 1438 GGATAGGAACTGACAGCTGTCAATAGCCCTAGGCTGAATTTTGTGTCAGATAAATAAAT 1497
DB 2712 GGCTAGGGGAAATGACAGTGACACTAGGTTTGCACCTGAATTTTCAGGCAAGAAATCAACC 2771
QY 1498 AATCATTCTATCTTTTGTGATTAATAAATTTCTAAATGCTATTTTAGACTTCTCTGT 1557
DB 2772 A-----GTATTCCTTCTAGGAAATTTTCTAAATAATGCTATTTAGACTTCTCTGT 2823
QY 1558 AGGGGCGGATATATAA 1574
DB 2824 AGGGGCGGATATATAA 2840
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## RESULT 5

US-08-469-667-8

; Sequence 8, Application US/08469667

; Patent No. 5733748

; GENERAL INFORMATION:

; APPLICANT: Yu, Guo-Liang

; APPLICANT: Rosen, Craig

; TITLE OF INVENTION: Colon Specific Genes and Proteins

; NUMBER OF SEQUENCES: 24

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,

; STREET: 6 Becker Farm Road

; CITY: Roseland

; STATE: NJ

; COUNTRY: USA

; ZIP: 07068-1739

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/469,667

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/ FILING DATE: 06-JUN-1995
/ CLASSIFICATION: 536
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Ferraro, Gregory D.
/ REGISTRATION NUMBER: 36,134
/ REFERENCE/DOCKET NUMBER: 325800-435
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 201-994-1700
/ TELEFAX: 201-994-1744
/ INFORMATION FOR SEQ ID NO: 8:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 878 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: 2..685
US-08-469-667-8

Query Match 47.0%; Score 790.8; DB 1; Length 878;
Best Local Similarity 97.9%; Pred. No. 1.8e-238;
Matches 820; Conservative 1; Mismatches 15; Indels 2; Gaps 2;

QY 692 TGTCTACTCAAGGTATTTTACAACTTATGACACGAAATGGTAGATACAGTGTAAAAAGTGG 751
DB 1 TGTCTACTCAAGGTATTTTACAACTTATGACACGAAATGGTAGATACAGTGTAAAAAGTGG 60

QY 752 GGCTCTGGGAGGAGTTAAAGCCAGCCAGAGAGTGATACCCAGCAGAGTGGAGCACT 811
DB 61 GGCTCTGGGAGGAGTTAAAGCCAGCCAGAGAGTGATACCCAGCAGAGTGGAGCACT 120

QY 812 GTACATACCTGGCTGGATTGAGAAATGAAATCAATGGAATCCACCAAGACCTGGAAT 871
DB 121 GTACATACCTGGCTGGATTGAGAAATGAAATCAATGGAATCCACCAAGACCTGGAAT 180

QY 872 TAATAAGGATGATGTTCAACACAGCAGAGTGTTTTCAGCAGAACTCTCGGGAGGCTC 931
DB 181 TAATAAGGATGATGTTCAACACAGCAGAGTGTTTTCAGCAGAACTCTCGGGAGGCTC 240

QY 932 ATTTGTGGCTTCTGATGTCCTCCAAATGCTCCCATACCTGATCTCTTCCCACTGGGCAAT 991
DB 241 ATTTGTGGCTTCTGATGTCCTCCAAATGCTCCCATACCTGATCTCTTCCCACTGGGCAAT 300

QY 992 CACCGACCTGAAGGCGGAAATTCAGGGGGAGTCTCATTAATCTGACTTGACAGCTCC 1051
DB 301 CACCGACCTGAAGGCGGAAATTCAGGGGGAGTCTCATTAATCTGACTTGACAGCTCC 360

QY 1052 TGGGGATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGAATAAGTACAAAT 1111
DB 361 TGGGGATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGAATAAGTACAAAT 420

QY 1112 TCTTGATCTCAGACAGCAAGTTCATGAATCTCTTCAAGTGAATCTACTGCTCTCATCC 1171
DB 421 TCTTGATCTCAGACAGCAAGTTCATGAATCTCTTCAAGTGAATCTACTGCTCTCATCC 480

QY 1172 AAAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTTAAACAGAAACATTAATCTTTGAAAA 1231
DB 481 AAAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTTAAACAGAAACATTAATCTTTGAAAA 540

QY 1232 TGGCAGATCTTTTCAATGCTTATTCAGGCTCTGATAGGTCGATCTGAAATCAGAAAT 1291
DB 541 TGGCAGATCTTTTCAATGCTTATTCAGGCTCTGATAGGTCGATCTGAAATCAGAAAT 600

QY 1292 ATCCAACTTGCAGAGTATCTTTGTTTATTCCTCCAGACTCCGCCAGAGACACCTAG 1351
DB 601 ATCCAACTTGCAGAGTATCTTTGTTTATTCCTCCAGACTCCGCCAGAGACACCTAG 660

QY 1352 TCTGATGAAAGCTGCTGCTCTTGT- CTTAATTTTCAATCAACAGCACCATTCTCTGGCA 1410
DB 661 TCTGATGAAAGCTGCTGCTCTTGT- CTTAATTTTCAATCAACAGCACCATTCTCTGGCA 720
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1411 TTCACATTTTAAAAATTATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCTAGG 1470
721 TTCACATTTTAAAAATTATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCTAGG 780

QY 1471 GCTGAATTTTGTCTAGATAATAATAAATCAATTCATCCCTTTTGTGATTTAAAA 1528
781 GGTGAATTTTGTGCGGTGAAT-AAATAATSAATTTTCCANCCCTTTTGTGTTTAAAA 837

RESULT 6
US-09-224-110-8
; Sequence 8, Application US/09224110
; Patent No. 6337195
; GENERAL INFORMATION:
; APPLICANT: Yu, Guo-Liang
; APPLICANT: Rosen, Craig
; TITLE OF INVENTION: Colon Specific Genes and Proteins
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,
; ADDRESSEE: Stewart & Olstein
; STREET: 6 Becker Farm Road
; CITY: Roseland
; STATE: NJ
; COUNTRY: USA
; ZIP: 07068-1739
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/224,110
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/469,667
; FILING DATE: 06-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Ferraro, Gregory D.
; REGISTRATION NUMBER: 36,134
; REFERENCE/DOCKET NUMBER: 325800-435
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-994-1700
; TELEFAX: 201-994-1744
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 878 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 2..685
US-09-224-110-8

Query Match 47.0%; Score 790.8; DB 4; Length 878;
Best Local Similarity 97.9%; Pred. No. 1.8e-238;
Matches 820; Conservative 1; Mismatches 15; Indels 2; Gaps 2;

QY 692 TGTCTACTCAAGGTATTTTACAACTTATGACACGAAATGGTAGATACAGTGTAAAAAGTGG 751
DB 1 TGTCTACTCAAGGTATTTTACAACTTATGACACGAAATGGTAGATACAGTGTAAAAAGTGG 60

QY 752 GGCTCTGGGAGGAGTTAAAGCCAGCCAGAGAGTGATACCCAGCAGAGTGGAGCACT 811
DB 61 GGCTCTGGGAGGAGTTAAAGCCAGCCAGAGAGTGATACCCAGCAGAGTGGAGCACT 120

QY 812 GTACATACCTGGCTGGATTGAGAAATGAAATCAATGGAATCCACCAAGACCTGGAAT 871
DB 121 GTACATACCTGGCTGGATTGAGAAATGAAATCAATGGAATCCACCAAGACCTGGAAT 180
```



QY 872 TAATAAGGATGATGTTCAACACAGCAAGTGTGTTTCAGCAGAAATCTCTCGGAGGCTC 931  
DB |||||  
DB 181 TAATAAGGATGATGTTCAACACAGCAAGTGTGTTTCAGCAGAAATCTCTCGGAGGCTC 240  
QY 932 ATTGTGGCTTCTGATGTCCTCCAAATGCTCCCATACCTGATCTCTCCACCTGGCCAAAT 991  
DB |||||  
DB 241 ATTGTGGCTTCTGATGTCCTCCAAATGCTCCCATACCTGATCTCTCCACCTGGCCAAAT 300  
QY 992 CACCGACCTGAAGGCGGAAATTCAGGGGGCAGTCTCATTAATCTGACTTGACAGCTCC 1051  
DB |||||  
DB 301 CACCGACCTGAAGGCGGAAATTCAGGGGGCAGTCTCATTAATCTGACTTGACAGCTCC 360  
QY 1052 TGGGATGATGATGACCATGGAACAGCTCACAAGTATATCATTCGATGATGATGATGAT 1111  
DB |||||  
DB 361 TGGGATGATGATGACCATGGAACAGCTCACAAGTATATCATTCGATGATGATGATGAT 420  
QY 1112 TCTTGATCTCAGACAGCAAGTTCATGAATCTCTCAAGTGAATGATGATGATGATGATGAT 1171  
DB |||||  
DB 421 TCTTGATCTCAGACAGCAAGTTCATGAATCTCTCAAGTGAATGATGATGATGATGATGAT 480  
QY 1172 AAAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTTAAACAGAAACATTTCTTTGAAAA 1231  
DB |||||  
DB 481 AAAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTTAAACAGAAACATTTCTTTGAAAA 540  
QY 1232 TGGCAGATCTTTTCATGCTATTCAGGCTGTGATGATGATGATGATGATGATGATGATGAT 1291  
DB |||||  
DB 541 TGGCAGATCTTTTCATGCTATTCAGGCTGTGATGATGATGATGATGATGATGATGATGAT 600  
QY 1292 ATCCAACTTGACAGCAAGTTCATGAATCTCTCAAGTGAATGATGATGATGATGATGATGAT 1351  
DB |||||  
DB 601 ATCCAACTTGACAGCAAGTTCATGAATCTCTCAAGTGAATGATGATGATGATGATGATGAT 660  
QY 1352 TCCTGATGAACGCTCTGCTCTTGT - CTTAATATTCATATCAACAGCACTTCCTGGCA 1410  
DB |||||  
DB 661 TCCTGATGAACGCTCTGCTCTTGT - CTTAATATTCATATCAACAGCACTTCCTGGCA 720  
QY 1411 TTCACATTTTAAAAATATGGAAGTGTGATGATGATGATGATGATGATGATGATGATGAT 1470  
DB |||||  
DB 721 TTCACATTTTAAAAATATGGAAGTGTGATGATGATGATGATGATGATGATGATGATGAT 780  
QY 1471 GCTGAATTTTCTCAGATAAATAAATAATCATTCATCTTTTGTGTTTATATAAA 1528  
DB |||||  
DB 781 GGTGAATTTTGTGCGGTGAAT-AAATAATATTTTTCANCCCTTTTGTGTTTATATAAA 837

## RESULT 7

PCT-US95-07289-8  
; Sequence 8, Application PC/TUS9507289  
; GENERAL INFORMATION:  
; APPLICANT: Yu, Guo-Liang  
; APPLICANT: Rosen, Craig  
; TITLE OF INVENTION: Colon Specific Genes and Proteins  
; NUMBER OF SEQUENCES: 24  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,  
; ADDRESSEE: Stewart & Olstein  
; STREET: 6 Becker Farm Road  
; CITY: Roseland  
; STATE: NJ  
; COUNTRY: USA  
; ZIP: 07068-1739  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US95/07289  
; FILING DATE: 06-JUN-1995  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Ferraro, Gregory D.  
; REGISTRATION NUMBER: 36,134

; REFERENCE/DOCKET NUMBER: 325800-265  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 201-994-1700  
; TELEFAX: 201-994-1744  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 878 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 2..685  
; PCT-US95-07289-8  
  
Query Match 47.0%; Score 790.8; DB 5; Length 878;  
Best Local Similarity 97.9%; Pred. No. 1.8e-238;  
Matches 820; Conservative 1; Mismatches 15; Indels 2; Gaps 2;  
  
QY 692 TGTCTACTCAAGTATTTTCAAACTTTATGACACGAATGGTAGATACAGTGTAAAAAGTGG 751  
DB |||||  
DB 1 TGTCTACTCAAGTATTTTCAAACTTTATGACACGAATGGTAGATACAGTGTAAAAAGTGG 60  
QY 752 GGTCTCGGAGAGATTAAACGACGAGAGAGATGATACCCAGCAGAGTGGAGCACT 811  
DB |||||  
DB 61 GGTCTCGGAGAGATTAAACGACGAGAGAGATGATACCCAGCAGAGTGGAGCACT 120  
QY 812 GTACATACCTGCTGGATTGAGAATGATGAATGATGAATGATGAATGATGAATGATGAAT 871  
DB |||||  
DB 121 GTACATACCTGCTGGATTGAGAATGATGAATGATGAATGATGAATGATGAATGATGAAT 180  
QY 872 TAATAAGGATGATGTTCAACACAGCAAGTGTGTTTTCAGCAGAAATCTCTCGGAGGCTC 931  
DB |||||  
DB 181 TAATAAGGATGATGTTCAACACAGCAAGTGTGTTTTCAGCAGAAATCTCTCGGAGGCTC 240  
QY 932 ATTGTGGCTTCTGATGTCCTCCAAATGCTCCCATACCTGATCTCTTCCCACTGGCCAAAT 991  
DB |||||  
DB 241 ATTGTGGCTTCTGATGTCCTCCAAATGCTCCCATACCTGATCTCTTCCCACTGGCCAAAT 300  
QY 992 CACCGACCTGAAGGCGGAAATTCAGGGGGCAGTCTCATTAATCTGACTTGACAGCTCC 1051  
DB |||||  
DB 301 CACCGACCTGAAGGCGGAAATTCAGGGGGCAGTCTCATTAATCTGACTTGACAGCTCC 360  
QY 1052 TGGGATGATGATGACCATGGAACAGCTCACAAGTATATCATTCGATGATGATGATGATGAT 1111  
DB |||||  
DB 361 TGGGATGATGATGACCATGGAACAGCTCACAAGTATATCATTCGATGATGATGATGATGAT 420  
QY 1112 TCTTGATCTCAGACAGCAAGTTCATGAATCTCTTCAAGTGAATGATGATGATGATGATGAT 1171  
DB |||||  
DB 421 TCTTGATCTCAGACAGCAAGTTCATGAATCTCTTCAAGTGAATGATGATGATGATGATGAT 480  
QY 1172 AAAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTTAAACAGAAACATTTCTTTGAAAA 1231  
DB |||||  
DB 481 AAAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTTAAACAGAAACATTTCTTTGAAAA 540  
QY 1232 TGGCAGATCTTTTTCATGCTATTCAGGCTGTGATGATGATGATGATGATGATGATGATGAT 1291  
DB |||||  
DB 541 TGGCAGATCTTTTTCATGCTATTCAGGCTGTGATGATGATGATGATGATGATGATGATGAT 600  
QY 1292 ATCCAACTTGACAGCAAGTTCATGAATCTCTTCAAGTGAATGATGATGATGATGATGATGAT 1351  
DB |||||  
DB 601 ATCCAACTTGACAGCAAGTTCATGAATCTCTTCAAGTGAATGATGATGATGATGATGATGAT 660  
QY 1352 TCCTGATGAACGCTCTGCTCTTGT - CTTAATATTCATATCAACAGCACTTCCTGGCA 1410  
DB |||||  
DB 661 TCCTGATGAACGCTCTGCTCTTGT - CTTAATATTCATATCAACAGCACTTCCTGGCA 720  
QY 1411 TTCACATTTTAAAAATATGGAAGTGTGATGATGATGATGATGATGATGATGATGATGAT 1470  
DB |||||  
DB 721 TTCACATTTTAAAAATATGGAAGTGTGATGATGATGATGATGATGATGATGATGATGAT 780  
QY 1471 GCTGAATTTTGTGCGGTGAATAAATAAATAAATAATCATTCATCTTTTGTGTTTATATAAA 1528

Db 781 GGTGAATTTTGTGGGTGAAT-AAATAATATTCANCCCTTTTGTGTTATATAA 837

## RESULT 8

US-09-049-698-16

; Sequence 16, Application US/09049698

; Patent No. 6368792

; GENERAL INFORMATION:

; APPLICANT: BILLING-MEDEL, PATRICIA A.

; APPLICANT: COHEN, MAURICE

; APPLICANT: COLPITTS, TRACEY L.

; APPLICANT: FRIEDMAN, PAULA N.

; APPLICANT: HAYDEN, MARK

; APPLICANT: KLASS, MICHAEL R.

; APPLICANT: ROBERTS-RAPP, LISA

; APPLICANT: RUSSELL, JOHN C.

; APPLICANT: STROUPE, STEPHEN D.

; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE

; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL

; TITLE OF INVENTION: TRACT

; NUMBER OF SEQUENCES: 51

; CORRESPONDENCE ADDRESS:

; ADDRESSER: Abbott Laboratories

; STREET: 100 Abbott Park Road

; CITY: Abbott Park

; STATE: IL

; COUNTRY: USA

; ZIP: 60064-3500

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: DOS

; SOFTWARE: FastSeq for Windows Version 2.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/049,698

; FILING DATE:

; CLASSIFICATION:

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER: 08/828,856

; FILING DATE: 31-MAR-1997

; ATTORNEY/AGENT INFORMATION:

; NAME: Becker, Cheryl L.

; REGISTRATION NUMBER: 35,441

; REFERENCE/DOCKET NUMBER: 6068.US.PI

; TELEPHONE: 847/935-1729

; TELEFAX: 847/938-2623

; TELEX:

; INFORMATION FOR SEQ ID NO: 16:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 3043 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

US-09-049-698-16

Query Match 40.0%; Score 673.8; DB 4; Length 3043;

Best Local Similarity 69.2%; Pred. No. 2.7e-201;

Matches 966; Conservative 0; Mismatches 417; Indels 12; Gaps 3;

QY 1 AACAAAGTGGTCCCATCATCCACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 60

Db 1293 AACAAAGTGGGGCCCATTTGTTATTTTGGGAAGAGCTGCTGATGAAGCAGTAA 1352

QY 61 AGGAGTGTCCAAAATGACAGGAGGTTTACAGACATATGCTTTAGATCAAGTTTCAAGA 120

Db 1353 TAGAGATGAGCAAGATAACAGGAGGAAGTCAITTTATGTTTCAGATGAAGCTCAGA 1412

QY 121 ATGGGCTCATTCATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGTGTCTCTCAGCG 180

Db 1413 ATGGGCTCATTCATGCTTTTGGGGCTTTTACATCAGGAAATGCTGATCTCTCCCA 1472

QY 181 CCATCCAGCTTCAGAGTAAGGATTAACCTCCAGACAGCCAGTGGATGAATGGCACAG 240

Db 1473 CCCITCAGCTCGAAAGTAAGGATTAACACTGAATAGTAAATGCTGGATGAACGACACTG 1532

QY 241 TGATCGTGACAGCACCCGCTGGGAAGGACACTTTTGTCTTATCATCTGGAACACGCAGC 300

Db 1533 TCATAAATTGATAGTACAGTGGGAAGGACAGCTTCTTCTCATCATGGAACAGCTGTC 1592

QY 301 CTCGCCAAATCCTTCTCTGGGATCCAGTGGACAGCAAGGTGGCTTTGTAGTGGACA 360

Db 1593 CTCGCCAGTATTTCTCTCGGGATCCAGTGGAAACAAATATGGAATAATTCACAGTGG 1652

QY 361 AAAACACCAAAATGGCTTACCTCCAAATCCAGGCAATTCGTAAGGTGGCACTTGGAA 420

Db 1653 CAACCTTCCAAATGGCTTATCTCAGTATTCAGGAACATGCAAAAGTGGGCACTTGG 1712

QY 421 ACAGTCTGC-----AAGCAAGCTCAGAACTTGAACCTGACTGTGACGTCCGTCGT 474

Db 1713 ACAATCTTCAAGCCAAAGCAACCCAGAAACATTAACATATTACAGTAACCTTCTCG 1772

QY 475 CCAATGCTACCTGCTCCAAATTCAGTGACTTCCAAAACGAACAGGACACACAGCAAT 534

Db 1773 CAAATCTTCTGTGCTCCAAATCAGTGAATGCTAAATGAATGAAGGACGTAAACAGTT 1832

QY 535 TCCCCAGCCCTCTGGTAGTTTATGCAAAATATTCGCAAGGAGCCCTCCCAATTTCTC 594

Db 1833 TCCCCAGCCCAATGATTTGTTACGCAAGAAATCTACAAGGATATGATCTGTTTGG 1892

QY 595 CAAGTGTACAGCCCTGATTTGAATCAGTGAATGGAAGGAAACAGTTACCTTGGAACT 654

Db 1893 CCAATGTGACTGCTTTTCATTTGAATCAGAAATGGACATACAGAACTTTTGGAACT 1952

QY 655 ATAATGGAGCAGGTGCTGATGCTTACTAAGGATGAGGTGCTTACTCAGAGTATTTCA 714

Db 1953 ATAATGGTGAGGGGCTGATTTCTTTCAAGAAATGATGGAGTCTACTCCAGGTA 2012

QY 715 CTTATGACACGAATGGTAGATACAGTGTAAAAGTCCGGGCTCTGGGAGGAGTTAAAC 774

Db 2013 CATATACAGAAATGGCAGATATAGCTTTAAAAGTTCCGGCTCATGGAGGACAAAC 2072

QY 775 CCAGACGGAGAGTGNATACCCAGCAGAGTGGAGCACTGTATACATACCTGCTGGATT 834

Db 2073 CCAGGCTAAAATACGGCTCCACTGAATAGAGCCGCGTATACATACAGGCTGGTAGTA 2132

QY 835 ATGATGAATACNAATGGATCCACCAAGCACTGAAATTAATAAGGATGATGTTCAACA 894

Db 2133 ACGGGGAAATTTGAAGCAAAACCCGCAAGCACTGAAATTTGAT---GAGGATAC 2189

QY 895 AGCAAGTGTGTTTCAGCAGAACATCCTCGGGAGGCTCATTTGTGGCTTCTGATGCC 954

Db 2190 CTTGGAGGATTTACGCGGAACAGCATCCGGAGGTGCAATTTGTGTTATCACAAGT 2249

QY 955 ATGCTCCCATACCTGATCTTTCCACCTGGCCAAATCACCGACCTGAAGGGGGAATTC 1014

Db 2250 GCCTTCCCTTGCTGACCAATACCCCAAGTCAAAATCACAGACCTTGTATGCCACAG 2309

QY 1015 ACGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCTCGGGATGATGATGATGACCA 1074

Db 2310 ATGAGG---ATAAGATTTATTTTACATGGACAGCAGGAGATTAATTTGATGTT 2366

QY 1075 CAGCTCACAAGTATATCATTCGAATAAGTACAAGTATTTCTTGTATCTCAGAGACA 1134

Db 2367 AAGTTCAAGTTTATATCATAGAATAAGTGCAGTATTTCTTGTATCTAAGAGACA 2426

QY 1135 ATGAATCTTTCAGTGAATACTACTGCTCTCATCCCAAGGAAGCAACTCTGAGGAAG 1194

Db 2427 ATGATGCTCTTCAAGTAAATACTACTGATCTGTCAACCAAGAGGCGCAACTCCA 2486

QY 1195 TCTTTTGTGTTAAACCAAGAAACATTTACTTTTGAATAATGGCACAGATCTTTTCA 1254

Db 2487 GCTTTGCAATTTAAACCAAGAAATATCTCAGAAAGAAATGCAACCCACATATTT 2546

QY 1255 TTCAGGCTGTTGATAAGGTGCTGATCTGAAATCAGAAATATCCAACATTCACAGAT 1314

Db 2547 TTAAGTATAGATAAAGCAATTTGACATCAAAAGTATCCACATGTCACAAAGTAACTT 2606  
Qy 1315 TGTATTATCTCCACAGACTCCGCCAGACACACCTAGTCTGATGAAAGTCTGTCTCTT 1374  
Db 2607 TGTATTATCTCCAGCAAACTCTGATGACATGATCTACTCTCTACTCTCTACTC 2666  
Qy 1375 GTCCTAAATTCATA 1389  
Db 2667 CTGATAAAGTCATA 2681

## RESULT 9

US-09-049-698-18  
; Sequence 18, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITTS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLASS, MICHAEL R.  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park  
; STATE: IL  
; COUNTRY: USA  
; ZIP: 60064-3500  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/049,698  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/828,856  
; FILING DATE: 31-MAR-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Becker, Cheryl L.  
; REGISTRATION NUMBER: 35,441  
; REFERENCE/DOCKET NUMBER: 6068.US.P1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 847/935-1729  
; TELEFAX: 847/938-2623  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 18:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 3181 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-09-049-698-18

Query Match 40.0%; Score 673.8; DB 4; Length 3181;  
Best Local Similarity 69.2%; Pred. No. 2.7e-201;  
Matches 966; Conservative 0; Mismatches 417; Indels 12; Gaps 3;  
Qy 1 AACAAAGTGGTCCCATCATCCACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGACTAG 60  
Db 1304 AACAAAGTGGGGCCATGTTTATTTGCTTTGGGAAGAGCTGCTGATGAAGCGTAA 1363

Qy 61 AGGAGCTGTCCAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTTCAGAAC 120  
Db 1364 TAGAGTAGCAGCAAGATAACAGGAGGAAGTCATTTTATGTTTCAGATGAGCTCAGAAC 1423  
Qy 121 ATGGCTCATTCATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGCTCTCAGCGCT 180  
Db 1424 ATGGCTCATTCATGCTTTTGGGGCTTTTACATCAGGAAATGCTGATCTCTCCAGAAGT 1483  
Qy 181 CCATCCAGCTTGAGAGTAAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCACAG 240  
Db 1484 CCCTTCAGCTCGAAAGTAAGGATTAACACTGAATAGTAACTGCTGGATGAACGACACTG 1543  
Qy 241 TGATCGTGACAGACCCGTTGGGAAAGGACACATTTGTTTCTTATCATCTGGAACACCGAGC 300  
Db 1544 TCATAATTTGATAGTACAGTGGGAAAGGACACAGTCTTCTTCATCATCAGAACAGTCTGC 1603  
Qy 301 CTCGCCAATCTTCTCTGGGATCCAGTGGGACAGAGCAAGTGGCTTTGTAGTGGACA 360  
Db 1604 CTCGCCAGTATTTCTCTCTGGGATCCAGTGGGAAACAATAATGGAATAATTTTCACAGTGGATG 1663  
Qy 361 AAAACACCAAAATGGCTTACCTCCAAATCCAGGCAATGCTAAGTGTGGCACTTGGAAAT 420  
Db 1664 CAACTTCCAAATGGCTTATCTCAGTATTTCCAGGAACTGCAAGGTGGCACTTGGCAT 1723  
Qy 421 ACAGTCTGC-----AAGCAAGCTCAAAAACCTTGACCTGACTGTCAGTCCCGTGGCT 474  
Db 1724 ACAATCTTCAAGCCAAAGCGAAACCCAGAAACATTAATTAACAGTAACTTCTTCGAGCAG 1783  
Qy 475 CCAATGCTACCTGCTCCAAATTCAGTACACTTCCAAACAGCAAGGACACACAGCAAT 534  
Db 1784 CAAATCTTCTGTGCTTCCAAATTCAGTGAATGCTAAATGAATAAGGACGTTAAACAGTT 1843  
Qy 535 TCCCGAGCCCTCTGGTAGTTTATGCAAAATATTCGCAAGGAGCCTCCCAATTTCTCAGGG 594  
Db 1844 TCCCGAGCCCAATGATGTTTACGAGAAATTTCTACAAGGATATGATCTGTTCTTGGAG 1903  
Qy 595 CCAGTGTACAGCCCTGATGTAATCAGTGAATGGGAAAAACAGTTACTTGGAACTACTGG 654  
Db 1904 CCAATGTGACTGCTTTTCAATGAATCAGAGATGGACATACAGAAATTTTGGAACTTTGG 1963  
Qy 655 ATAATGGAGCAGTGTGATGCTTACTTAAGGATGACGGTCTTACTCAAGTATTTTCACAA 714  
Db 1964 ATAATGGTGCAGGCGCTGATTTCTTCAAGAAATGATGGAGTCTACTCCAGTATTTTACAG 2023  
Qy 715 CTTATGACACGAATGATAGTAAAGTGGGGCTCTGGGAGGAGTTAAAGCAG 774  
Db 2024 CATATACAGAAATGGCAGATATAGCTTAAAGTTCGGGCTCATGAGGAGGAAACACTG 2083  
Qy 775 CCAGACGGAGAGTGATACCCAGCAGAGTGGAGCACTGTACATACCTGCTGGATGAGA 834  
Db 2084 CCAGGCTAAAATTAACGGCTCCACTGAATAGAGCCGCTACATACAGGCTGGGTAGTGA 2143  
Qy 835 ATGATGAAATACAAATGGAAATCCACAGACCTGAAATTAATAGGATGATGTTCAACACA 894  
Db 2144 ACGGGGAAATTTGAAGCAAAACCCGCCAAGACCTGAAATTTGAT---GAGGATACCTCAGACCA 2200  
Qy 895 AGCAAGTGTGTTTTCAGCAGAAACATCCTCGGAGGCTCATTTTGGGCTCTGATGTTCCCA 954  
Db 2201 CCTTGGAGGATTTTACGCCAAGACAGATCCGAGGTTGCAITTTGGTATCAGAGTCCCAA 2260  
Qy 955 ATGCTCCCATACCTGATCTCTTCCACCTGGGCAAAATCAACGACCTGAAGGGGAAATTC 1014  
Db 2261 GCCTTCCCTTGCCTGACCAATACCCCAAGTCAAAATCAGACACTTGTATGCCACAGTTTC 2320  
Qy 1015 ACGGGGGAGTCTCATTAATCTGATGAGCAGCTCTCGGGGATGATTTATGACCATGGAA 1074  
Db 2321 ATGAGG---ATAAGATTTATTTTACATGACAGCAGCAGGAGATATTTTGTATTTGGAA 2377  
Qy 1075 CAGCTCACAAAGTATATCATTCGAATAAGTACAAGTATTTCTGATCTCAGAGCAAGTCA 1134  
Db 2378 AAGTTCAAGCTTATATCATAGAAATAGTGAAGTATTTCTGATCTTAAGAGACAGTTTG 2437  
Qy 1135 ATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAGGAAGCAACTCTGAGGAAG 1194

Db 2438 ATGATGCTCTCAAGTAAATCTACTGATCTGTCCAAAGGAGGCGCAACTCCAAGGAA 2497  
Qy 1195 TCTTTTGTGTTAAACGAGAAACATTTCTTTGAAATGGGACAGATCTTTTCATTGCTA 1254  
Db 2498 GCTTTTGCAATTTAAACGAGAAATATCTCAGAAAGAAATGCAACCCACATATTTATTGCA 2557  
Qy 1255 TTCAGGCTGTTCATAGGTCGATCTGAAATCAGAAATATCCAAACATTGACAGATATCTT 1314  
Db 2558 TTAAAGTATAGATAAAGCAATTTGACATCAAAAGTATCCAAATTCGCAAGTAACTT 2617  
Qy 1315 TGTTTATCTCCACAGACTCCGCGAGAGACACCTAGTCTCTGATGAAACGCTGCTCTCTT 1374  
Db 2618 TGTTTATCTCCCAAGCAAACTCTGATGACATGATGCTCTACTCTCTACTCTCTACTC 2677  
Qy 1375 GTCCTAATATTCATA 1389  
Db 2678 CTGATAAAAGTCATA 2692

## RESULT 10

US-09-016-434-928

; Sequence 928, Application US/09016434

; Patent No. 6500938

; GENERAL INFORMATION:

; APPLICANT: Janice Au-Young

; APPLICANT: Jeffrey J. Seilhamer

; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING

; TITLE OF INVENTION: PATHWAY GENE EXPRESSION

; NUMBER OF SEQUENCES: 1490

; CORRESPONDENCE ADDRESS:

; ADDRESS: INCYTE PHARMACEUTICALS, INC.

; STREET: 3174 PORTER DRIVE

; CITY: PALO ALTO

; STATE: CALIFORNIA

; COUNTRY: USA

; ZIP: 94304

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/016.434

; FILING DATE: HEREWITH

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; CLASSIFICATION:

; ATTORNEY/AGENT INFORMATION:

; NAME: Zeller, Karen J.

; REGISTRATION NUMBER: 37,071

; REFERENCE/DOCKET NUMBER: PA-0002 US

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (650) 855-0555

; TELEFAX: (650) 845-4166

; INFORMATION FOR SEQ ID NO: 928:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 1081 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; IMMEDIATE SOURCE:

; LIBRARY: COLNNOT05

; CLONE: 774419

; US-09-016-434-928

## Query Match

Best Local Similarity 26.2%; Score 441.4; DB 4; Length 1081;

Matches 633; Conservative 0; Mismatches 276; Indels 6; Gaps 2;

Qy 475 CCAATGCTACCTGCTCCCAATTACAGTACCTTCCAAACGAAACAGGACACAGCAAAAT 534

Db 2 CAAATTCCTCTGTGCTCCCAATCAAGTGAATGCTAAATGAATGAAGACGCTAAACAGTT 61  
Qy 535 TCCCAGAGCTCTGGTAGTCTTATGCAATATTCGCCAAGGAGCCTCCCAATTCCTCAGG 594  
Db 62 TCCCAGAGCTTATGCTTATGCTTATGCTTATGCTTATGCTTATGCTTATGCTTATGCT 121  
Qy 595 CCAGTGTACAGAGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 654  
Db 122 CCAATGTGCTGCTTTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 181  
Qy 655 ATAATGAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 714  
Db 182 ATAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 241  
Qy 715 CTTATGACAGCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 774  
Db 242 CATATACAGAAATGGCAGATATAGCTTTAAAGTTCCGGCTCATGGAGAGCAACACCTG 301  
Qy 775 CCAGACGAGAGTATACCCAGAGAGTGGAGCACTGTACATCTGCTGCTGCTGCTGCTGCTGCT 834  
Db 302 CCAGCTAAATATTACGGCTCCACTGAATAGAGCGCGGTACATACAGGCTGGGTAGTGA 361  
Qy 835 ATGATGAAATCAATGGAATCCACCAAGACCTGAAATTAATAAGGATGATGCTTCAACACA 894  
Db 362 ACGGGAAATTTGAAGCAAAACCCGCAAGACCTGAAATTTGAT--GAGGATACCTCAGACCA 418  
Qy 895 AGCAAGTGTGTTTACAGAGACATCTCGGAGGCTCATTTGTGCTTCTGATGCTGCTGCTGCT 954  
Db 419 CTTGAGGATTTTACGCGCAACAGCATCCGAGGTGCAATTTGTGTATCACAAGTCCCAA 478  
Qy 955 ATGCTCCCATACCTGATCTCTTCCACCTGGCCAAATCACCGACCTGAAGGGGGAATTC 1014  
Db 479 GCCTTCCCTTGGCTGACCAATACCCCAAGTCAATCACAGACCTTGATGCCAGTTC 538  
Qy 1015 ACGGGGCGAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGGATGATTAATGACCATGGA 1074  
Db 539 ATGAGATAAG--ATTATCTTACATGACAGCACAGGAGAGATAATTTGATGTTGGA 595  
Qy 1075 CAGCTCAAGTATATCATTCGAATAAGTACAGTATTTCTTGATCTCAGAGACAAGTTCA 1134  
Db 596 AAGTTCAACGTTATATATAAGAAATAGTGAAGTATTTCTTGATCTAAGAGACAGTTTGT 655  
Qy 1135 ATGATCTCTTCAAGTGAATCTACTGCTCTCATCCCAAGGAGCAACTCTGAGGAG 1194  
Db 656 ATGATGCTCTTCAAGTAAATCTACTGATCTGTACCAAGAGGAGGCAACTCTCAAGAAA 715  
Qy 1195 TCTTTTGTTTAAACGAGAAACATTTACTTTTGAATAATGGCAGATCTTTTTCATTGCTA 1254  
Db 716 GCTTTGCAATTTAAACGAGAAATATCTCAGAAGAAATGCAACCCACATATTTTGGCA 775  
Qy 1255 TTCAGGCTGTTGATAGGTCGATCTGAAATCGAAATATCGAAATTCGAAGTTCAGAGATCT 1314  
Db 776 TTAAGATATAGATAAAAGCAATTTGACATCAAAAGTATCCAAATTCGCAAGTAACTT 835  
Qy 1315 TGTTTATCTCCACAGACTCCGCGAGAGACACCTAGTCTGATGATGATGATGATGATGAT 1374  
Db 836 TGTTTATCTCCCAAGCAATCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 895  
Qy 1375 GTCCTAATATTCATA 1389  
Db 896 CTGATAAAAGTCATA 910

## RESULT 11

US-09-049-698-17

; Sequence 17, Application US/09049698

; Patent No. 6368792

; GENERAL INFORMATION:

; APPLICANT: BILLING-MEDEL, PATRICIA A.

; APPLICANT: COHEN, MAURICE

; APPLICANT: COLPITTS, TRACEY L.

; APPLICANT: FRIEDMAN, PAULA N.



Db 1411 AGACATTGTCAAAATATGACAGGAGATATC-----GTTTTTTGCCAATAAAGACATAA 1464  
QY 121 ATGGCTCATTCATGCTTTTGGGGCCCTTTTCATCAGGAATGGAGCTGCTCTCAGCGCT 180  
Db 1465 CTGGCTTACTAATGCTTTTCAGTAGAATTTTCATCTAGAGTGGAGCATCTCAGCAGG 1524  
QY 181 CCATCCAGCTTCAGAGTAGTAAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGGCCACAG 240  
Db 1525 CTAATTCAGTTGGAAGCAAGCTTGAAATATACAGGAAGGAAGAGTAACAGGSCACAG 1584  
QY 241 TGATCGTGACAGCACCCTGGGAAAGGACATTTGTTTCTTATCACTCTGGACAAAGCAGC 300  
Db 1585 TGCCTGTAGACAGTACAGTTGGAATGACACTTTCTTTGTTGTCATCGGACAAATACAAA 1644  
QY 301 CTCGCCAATCTCTCTGGGATCCAGTGGACAGAGCA-----AGTGGCTTTG 351  
Db 1645 AACCAAGAAATGTTCTCCAAGATCCAAAGGAAGAAATATAAAACCTCGGATTTCAAAG 1704  
QY 352 TAGTGACAAAAACACCAAAATGGCTACCTCCAAATCCAGGCATTTGCTAAGTTGGCA 411  
Db 1705 AAGATAAGTTAAATTCGATCTGCTGCTCGCAATACCTGGTATTTGAGAGACAGGTA 1764  
QY 412 CTTGGAATACAGTCTGC-----AAGCAAGCTCACAAACCTTGACCCCTGACTGTCA 462  
Db 1765 CTTGGACTTACAGCCTTCTFAAATAATCATCGCCAGCTCTCAAATGCTAACAGTGACAGTGA 1824  
QY 463 CGTCCGGTGGTCCAAATGCTACCTGCTCCCAATACAGTGACTTCCAAAGCAAGG 522  
Db 1825 CCACCTCGAGCAAGAAGTCTACTATACCCCCAGTAATTGCAACAGCTCACATGAGTCAAC 1884  
QY 523 ACACCAAGCAAAATTCGCCAGCCCTCTGGTAGTTTATGCAAAATATTCGCCAAGGAGCTCCC 582  
Db 1895 ATACAGACATATCTTAGCCCAATGATTTATGCAACAGTCACTCAAGGGTTTTGCG 1944  
QY 583 CAATTTCTCAGGCCAGTGTACAGCCCTGATGTAATCAGTGAATGGAATAAAGACAGTTACT 642  
Db 1945 CTGTACTGGAAATCAGTGTAAATAGCCATATATAGAAACCGAAGTGCATCAAGTAAACAT 2004  
QY 643 TGGAACTACTGATTAATGGAGCAGGTGCTGATGCTTACTTAAGATCAGCGTCTTACTCAA 702  
Db 2005 TGGAGCTCTGGGACAAATGGTGCAGTCTGATGCTCAAGAAATGATGGCATCTTACTCAA 2064  
QY 703 GGTATTTCAACAATTTATGACACGAATGGTAGATACAGTGTAAAGTGGGGCTCTGGGAG 762  
Db 2065 GATCTTTACAGATTACTATGGAATGGTAGATACAGTTTAAAGTACATGCACAGGCA 2124  
QY 763 GAGTTAAGCAGCCAGAGAGAGTGATACCCAGCAGAGTGGAGCAGTGTATACACTG 822  
Db 2125 GAAACACACAGGCTAGGCTTAAATTTAAGACAAACCAACAGAAAGTTCTATATGTTCCAG 2184  
QY 823 GCTGGATTGAGAAATGATGAAATACATGGAATCCAGCAGCTGAAATTAATAGGATG 882  
Db 2185 GCTACGTTGAAACCGGTAAATTTATCTGTAACCCACCCAGACCTGAAGTCAAGATGACC 2244  
QY 883 ATGTTTCAACACAGCAAGTGTGTTTCAGCAGAAACATCTCTGGAGGCTCATTTTGGCTT 942  
Db 2245 TGGCAAAAGCTTAAATAGAGACTTTAGCAGACTAACCTCTGGAGGCTCATTTACTGTAT 2304  
QY 943 CTGATGTCCCAATGCTCCCA---TACCTGATCTCTTCCACCTGCGCCAAATCACCGACC 999  
Db 2305 CAGGAGCTCTCTCTCTGTAATACCCCTTCTGTGTTCCACCCAGTAAATTAACAGATC 2364  
QY 1000 TGAAGCGGAAATTCACGGGGCAGTCTCATTTAATCTGACTTGGACAGCTCTCTGGGATG 1059  
Db 2365 TTGAGGCTTAAGTTCAAAGAG---ATTATATTCAAATTTTCATGGACAGCCCTCGCAATG 2421  
QY 1060 ATTATGACCATGGAACAGCTCAACAAGTATATCATTTGAAATAGTAAAGTATTTCTGATC 1119  
Db 2422 TCCATAGATAAAGGAAGCAACAGCTACATATTAAGATAAGTAAGAGTTTCAATGATC 2481  
QY 1120 TCAGAGACAAGTTCAATGAATCTCTTTCAAGTGAATACTACTGCTCTCATCTCCAAAGGAG 1179  
Db 2482 GTCAAGAAAGATTTTGACAAATGCGACTTTTAGTGAATACTTCTAATCTAATACCTAAGGAG 2541

QY 1180 CCAACTCTGAGGAAGTCTTTTGTGTTTAAACCAAGAAACATTACTTTTGAAATGGCACAG 1239  
Db 2542 CCGATCAAAAGAAATTTTGAATTTAAGCCAGAACATTTTAGAGTAGAATAATGGCACCA 2601  
QY 1240 ATCTTTTCATTGCTATTTCAGGCTGTGTATAAGGTGATCTGAAATCAGAAATATCCAA 1299  
Db 2602 AATCTATATTTCAGTCCAGCCATCAACGAAGCAATCTCATCTCAGAGGTTTCTCACA 2661  
QY 1300 TTGACAGGATATCTTTGTTTATTTCTCTCCAC 1329  
Db 2662 TTGTACAGCAATCAAAATTTTATCTCTAC 2691

## RESULT 13

US-09-193-562D-33  
; Sequence 33, Application US/09193562D  
; Patent No. 6309857

## ; GENERAL INFORMATION:

; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193.562D  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065.922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 33  
; LENGTH: 3022  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-09-193-562D-33

Query Match 23.7%; Score 398.8; DB 4; Length 3022;

Best Local Similarity 59.4%; Pred. No. 9.3e-115;

Matches 796; Conservative 0; Mismatches 517; Indels 27; Gaps 6;

QY 6 AGTGGTGCATCATCCACAGTGCCTTTGGGGCCCTTCGAGCTCAGAACTAGAGGAG 65  
Db 1308 AGCGGTGCCATCATCCACACCATCGCTCTGGGGCTTCGCGTCCCGAGAACTGGAGACT 1367  
QY 66 CTGTCCAAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACTAGGCG 125  
Db 1368 CTGTGGCATACAGAGGAGGCTTGGTTCTATGCCAACAAAGACCT-----AAACAGC 1421  
QY 126 CTCATTGATGCTTTTGGGGCCCTTTTCATCAGAAATGAGAGTGTCTCTCAGCGTCCATC 185  
Db 1422 CTTATCGATGCTTTTCAGTAGAATTTTCATCTACAAAGTGGCAGCGTCTCCAGCAGGCTCTG 1481  
QY 186 CAGCTTGAGAGTAAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCAGCAGTGATC 245  
Db 1482 CAGTTGGAGAGCAAGCCCTTCGATGTTCAGACAGGGGATGGATAAACGGTACAGTACCT 1541  
QY 246 GTGACACAGCCGTGGGAAAGGACACTTTTGTCTTATCAGCTGGACAAACAGCAGCTCCC 305  
Db 1542 CTGACAGTACCGTGGCAACGACACAGTTCTTTGTATCACTGGATGGTAAAGGCA 1601  
QY 306 CAAATCTCTCTGGGATCCAGTGGAGCAAGCA-----AGTGGCTTTGTAGTG 356  
Db 1602 GAAATCTTCTCAAGATCCAAAGGAAAAAATATACAACTCAGATTTCCAAGATGAT 1661  
QY 357 GACAAAACACAAAATGGCCCTACTCCAAATCCAGGCATTTGCTAAGGTTGGCACTTGG 416  
Db 1662 AAATCTAAACATCCCGTCTGCTAGACTTTCAAATACCGGCACTGCAGACAGAGTACTTGG 1721  
QY 417 AAATACAG---TCTGCAAGCAAGCTCACAAAACCTTGACCTGACTGTCACTCCCGTGGC 473  
Db 1722 ACTTACAGTACAGGGTACCAAGTCTCAGTTGATTACATGACAGTACCCTACGAGCA 1781  
QY 474 TCCAAATGCTACCTCCCTCCAAATTTACAGTGTACTTCCAAAACGAAACAGGACACCAAGCAA 533  
Db 1782 AGAAGTCCCAACCAACCACTCTCTGGGCTACTCTGCTACTAGTACATGAGTACAGACAGCCAG 1841

Qy	534	TTCCCGAGCCCTCTGGTAGTTTATGTGCAAAATATTCGCCAAGGAGCCTCCCAATTCCTCAGG	593
Db	1842	TACCTTAGCCGGATGTGTGTAGCGCACGGTCAGCCAAAGGATTTTTCCTGTCTGGGA	1901
Qy	594	GCCAGTGTCAAGCCCTGATTGAATCAGTGAATGGAAAAACAGTTACTCTTGGAACTACTG	653
Db	1902	GCCAAATGTACAGCCCTCATAGAAGCTGAACATGACATCAAGTCACTTGGAGCTCTGG	1961
Qy	654	GATTAATGGAGCAGTGTCTGATGCTACTTAAGATGACGGTGTCTACTCAAGGTATTTTCA	713
Db	1962	GACAAATGGGCGAGTGTCTGATATCGTTTAAAAATGATGSCATCTACAACAATACTTTTACA	2021
Qy	714	ACTTATCACACGAATGTGTAGATACAGTGTAAAGTGGGGCTCTGGGAGAGATTAAAGCA	773
Db	2022	GATTATCATGGAATGTGTAGNATACAGCTTAAAGTGGTGTCTCCAGGCACAAGAAACAA	2081
Qy	774	GCCAGACGGAGATGATACCCACAGCAGAGTGGAGCCTGTATACATPACTCTGCTGGATTGAG	833
Db	2082	ACCAGACTGAGCTTAAAG--CAGAAGAACAAAGTCTTTATATATACCTGCTATGTGAA	2138
Qy	834	AATGATCAAAATACAATGGAATCCACCAAGACCTTGAAATTAATAGGATGATGTTCAACAC	893
Db	2139	AATGGTAAAATTGTACTGAATCCACCAGACAGATGTCCAAAGAACCATAGAAAGCT	2198
Qy	894	AAGCAAGTGTGTTTCAGCAGAAACATCTCGGAGGCTCATTT---TGTGGCTTCTGATGTC	950
Db	2199	ACAGTGAAGACATTTCAACAGAGTAACCTCTGGAGGGTCGTTACTGTGTCTGGAGCGCC	2258
Qy	951	CCAAATGCTCCCATACCTGATCTCTTCCCACTGGCCAAATCAACGACCTGGAAGCGGAA	1010
Db	2259	CCGTATGGCACCACGCTCGTGTGTTCCCAACCAAGTAAAGTCAACAGCTTGGAGGCTGAG	2318
Qy	1011	ATTCACGGGGCAGTCTCATTAATCTGACATTGGACAGCTCTCTGGGATGATTATGACCAT	1070
Db	2319	TTTATAGTG--ATTATATTCACTTTACATGGACGCGCCCTGGCAAGTTCTCGACAAT	2375
Qy	1071	GGAACAGCTCAAGATATATCATTCGAATAGATCAAGTATCTTGTATCTCAGAGACAAG	1130
Db	2376	GGAAGACACATAGATACATCAGAAATGAGCCAGCATCCTCTGGATCTCCAAGAGAT	2435
Qy	1131	TTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCAAAGGAAGCAACTCTGAG	1190
Db	2436	TTTTAACATGCTACTTTTAGTGAATGCTTCCAGTCTGATACCTAAGAGAGCTGGCTCAAAA	2495
Qy	1191	GAACTCTTTTTGTTTAAACAGAAAAACATTACTTTTGAAATAGGCAAGATCTTTTCAATT	1250
Db	2496	GAAAGATTAAATTTCAAAACCAAGAACTTTTAAAAATAGCAATGGCATCTCCAGCTCTACATT	2555
Qy	1251	GCTATTACAGGCTGTGTGATAGGTCGATCTGAAATCAGAAATATCCAACTTGCACAGATTA	1310
Db	2556	GCAATCCAGGACAGCAATGAGCCAGTCTCACCTCTGAGGTCTCCAACATGCAACAGGCT	2615
Qy	1311	TCTTTGTGTTATTCCTCCACA	1330
Db	2616	GTCAAGCTTACTTCTCTAGA	2635

## RESIT.T 14

Accession	Sequence	Position	Database
US-09-193-562D-29	Sequence 29, Application US/09193562D		
Patent No. 6309857			
GENERAL INFORMATION:			
APPLICANT: Pauli, Benedict U.			
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium			
TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules			
FILE REFERENCE: 18617.0052			
CURRENT APPLICATION NUMBER: US/09/193,562D			
CURRENT FILING DATE: 1998-11-17			
PRIOR APPLICATION NUMBER: US/60/065,922			
PRIOR FILING DATE: 1997-11-17			
NUMBER OF SEQ ID NOS: 47			
SEQ ID NO 29			
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877	AGGATGATGTTCAACACAAGCAAGTAGTGTTTTCAGCAGAACATCCTCGGAGGCTCATTTG	936	Qy
2243	ATGATGTGGAAGAGGCTCAACAGACGACTTCAGCAGACTCACCTCTGGAGGGTCGTTTA	2302	Db
937	TGCGTCTCTGATG---CCCAATGCTCCCATCCTGATCTCTTCCACACCTGGGCCAAATCA	993	Qy
2303	CTGTATCAGGAGTGCCTCTTAATGGTAATCATTTCTCAGGTGTTCTCACCTGGTAAATTTG	2362	Db
994	CCGACCTGAAGCGGAAATTCACGGGGCAGTCTCATTAATCTGACTTGACAGAGTCCTG	1053	Qy
2363	TAGACCTCGAGGCTAAGTTTCAAGGAG---ATCATATTCAACTTTTATGACTGCCCCCTG	2419	Db





GenCore version 5.1.6  
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Run on: April 21, 2004, 16:13:49 ; Search time 71.3345 Seconds  
(without alignments)  
13045.792 Million cell updates/sec

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Perfect score: 3040  
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Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delxop 6.0 , Delxext 7.0

Searched: 1133595 seqs, 276475211 residues

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Maximum Match 100%  
Listing first 45 summaries

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-TRANS=human40.cdi -LIST=45 -DOALIGN=200 -THR SCORE=pct -THR MAX=100  
-THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0  
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-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Published Applications AA:

- 1: /cn2\_6/prodata/2/pubaa/US07\_PUBCOMB.pcp.\*
- 2: /cn2\_6/prodata/2/pubaa/PCT\_NEW\_PUB.pcp.\*
- 3: /cn2\_6/prodata/2/pubaa/US06\_NEW\_PUB.pcp.\*
- 4: /cn2\_6/prodata/2/pubaa/US06\_PUBCOMB.pcp.\*
- 5: /cn2\_6/prodata/2/pubaa/US07\_NEW\_PUB.pcp.\*
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- 13: /cn2\_6/prodata/2/pubaa/US10A\_PUBCOMB.pcp.\*
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- 18: /cn2\_6/prodata/2/pubaa/US60\_PUBCOMB.pcp.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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Result No. Score Match Length DB ID Description

1	2521	82.9	869	14	US-10-106-698-6388	Sequence 6388, Ap
2	2521	82.9	914	9	US-09-823-356-8	Sequence 8, Appl1
3	2521	82.9	914	9	US-09-922-217-1066	Sequence 1066, Ap
4	2521	82.9	914	9	US-09-833-263-1066	Sequence 1066, Ap
5	2521	82.9	914	9	US-09-981-353-192	Sequence 192, App
6	2521	82.9	914	11	US-09-833-245-2054	Sequence 2054, Ap
7	2521	82.9	914	13	US-10-025-380-1066	Sequence 1066, Ap
8	2521	82.9	914	14	US-10-270-595-6	Sequence 6, Appl1
9	2521	82.9	914	14	US-10-235-994-26	Sequence 26, Appl1
10	2521	82.9	914	14	US-10-060-255-42	Sequence 42, Appl1
11	2521	82.9	925	9	US-09-764-868-635	Sequence 635, App
12	2521	82.9	925	14	US-10-106-698-6248	Sequence 6248, Ap
13	2518	82.8	914	14	US-10-055-412B-28	Sequence 28, Appl1
14	2516	82.7	914	15	US-10-369-214-133	Sequence 133, App
15	2515	82.7	552	14	US-10-106-698-4628	Sequence 4628, Ap
16	1906	62.7	913	15	US-10-270-595-2	Sequence 2, Appl1
17	1906	62.7	913	15	US-10-369-214-132	Sequence 132, App
18	1482	48.8	919	9	US-09-989-722-379	Sequence 379, App
19	1482	48.8	919	9	US-09-989-723-379	Sequence 379, App
20	1482	48.8	919	9	US-09-989-727-379	Sequence 379, App
21	1482	48.8	919	9	US-09-989-731-379	Sequence 379, App
22	1482	48.8	919	9	US-09-989-732-379	Sequence 379, App
23	1482	48.8	919	9	US-09-989-733-379	Sequence 379, App
24	1482	48.8	919	9	US-09-991-073-379	Sequence 379, App
25	1482	48.8	919	9	US-09-990-442-379	Sequence 379, App
26	1482	48.8	919	9	US-09-991-163-379	Sequence 379, App
27	1482	48.8	919	9	US-09-993-604-379	Sequence 379, App
28	1482	48.8	919	9	US-09-990-456-379	Sequence 379, App
29	1482	48.8	919	9	US-09-989-721-379	Sequence 379, App
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31	1482	48.8	919	9	US-09-989-293A-379	Sequence 379, App
32	1482	48.8	919	9	US-09-989-735-379	Sequence 379, App
33	1482	48.8	919	9	US-09-990-444-379	Sequence 379, App
34	1482	48.8	919	9	US-09-991-181-379	Sequence 379, App
35	1482	48.8	919	9	US-09-989-730-379	Sequence 379, App
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39	1482	48.8	919	10	US-09-997-653-379	Sequence 379, App
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41	1482	48.8	919	10	US-09-997-428-379	Sequence 379, App
42	1482	48.8	919	10	US-09-997-666-379	Sequence 379, App
43	1482	48.8	919	10	US-09-990-438-379	Sequence 379, App
44	1482	48.8	919	10	US-09-990-562-379	Sequence 379, App
45	1482	48.8	919	10	US-09-990-711-379	Sequence 379, App

ALIGNMENTS

RESULT 1

US-10-106-698-6388  
; Sequence 6388, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 6388  
; LENGTH: 869  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: MISC\_FEATURE

! LOCATION: (14)  
! OTHER INFORMATION: xaa equals any of the naturally occurring L-amino acids  
US-10-106-698-6388

## Alignment Scores:

Pred. No.: 3,12e-218 Length: 869  
Score: 2521.00 Matches: 488  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 82.93% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-19 (1-1683) x US-10-106-698-6388 (1-869)

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QY 63 GAGCTGTCCAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAAAT 122
DB 402 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn 421
QY 123 GGCCTCATTGATGCTTTTGGGGCCCTTTCATCAGGAAATGGAGCTGCTCTCAGCGCTCC 182
DB 422 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 441
QY 183 ATCCAGCTTGAGAGTAAGGATTACCTCCAGACAGCCAGTCGATGATGATGGCACAGTG 242
DB 442 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 461
QY 243 ATCGTGGACAGCACCGTGGGAAAGACACTTGTGTTTCTTATCACCCTGGACACGCGCT 302
DB 462 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 481
QY 303 CCCAAATCTCTCTGGGATCCAGTGACAGAGCAAGAGTGCGCTTGTAGTGACAA 362
DB 482 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys 501
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DB 502 AsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyr 521
QY 423 AGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTCACTGCCGTGCGTCCCAATGCT 482
DB 522 SerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThrSerArgAlaSerAsnAla 541
QY 483 ACCCTGCTCCAAATACAGTACTTCCAAAACGAAACAGACACAGCAAAATCCCCAGC 542
DB 542 ThrLeuProProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 561
QY 543 CCTCTGGTAGTTATGCAAAATATGCGCAAGAGCTCCCAATCTCAGGCGCCAGTGTC 602
DB 562 ProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 581
QY 603 ACAGCCCTGATTGAATCAGTGAATGAAAACAGATTACCTTGGAACTACTGATGAATGGA 662
DB 582 ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuGluLeuLeuAspAsnGly 601
QY 663 GCAGGTGCTGATGCTACTAAGGATGACGGTGCTACTCAAGGTATTTTCAACTTATGAC 722
DB 602 AlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAsp 621
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DB 622 ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArg 641
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DB 862 GlyGluLeuGlnLeuSerIleAla 869
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## RESULT 2

US-09-823-356-8  
; Sequence 8, Application US/09823356  
; Patent No. US20010025098A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Kaser, Matthew R.  
; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
; FILE REFERENCE: PF-0489-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823,356  
; CURRENT FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/039,307  
; PRIOR FILING DATE: 1998 March 13  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PERL Program  
; SEQ ID NO 8  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775  
US-09-823-356-8

## Alignment Scores:

Pred. No.: 3,18e-218 Length: 914  
Score: 2521.00 Matches: 488  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 82.93% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-19 (1-1683) x US-09-823-356-8 (1-914)

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Db 447 GluLeuSerLysMetThrGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn 466
QY 123 GGCCTCATGTGCTTTTGGGGCCCTTTCATCAGGAAATGGAGCTCTCTCAGCGCTCC 182
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QY 183 ATCCAGCTTGAGTAGGAGTAACTCCCTCCAGACAGCCAGTGGATGAATGCCACAGTG 242
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RESULT 3  
US-09-922-217-1066  
; Sequence 1066, Application US/09922217  
; Patent No. US20020076414A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stoik, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Yugu  
; APPLICANT: Smith, Carole Lynn  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; FILE REFERENCE: 210121.471C13  
; CURRENT FILING DATE: 2001-08-03  
; NUMBER OF SEQ ID NOS: 1124  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1066  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-922-217-1066

Alignment Scores:  
Pred. No.: 3,18e-218 Length: 914  
Score: 2521.00 Matches: 488  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 82.93% Indels: 0

DB: 9 Gaps: 0  
US-09-049-696-19 (1-1683) x US-09-922-217-1066 (1-914)  
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QY 63 GAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAAAT 122  
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RESULT 4  
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; Sequence 1066, Application US/09833263  
; Patent No. US20020110547A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Stoik, John A.  
; APPLICANT: Mesgher, Madeleine J.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.471C12  
; CURRENT APPLICATION NUMBER: US/09/833,263  
; CURRENT FILING DATE: 2001-04-10  
; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 1066  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-833-263-1066

Alignment Scores:  
Pred. No.: 3,18e-218 Length: 914  
Score: 2521.00 Matches: 488  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 82.93% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-19 (1-1683) x US-09-833-263-1066 (1-914)  
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QY 63 CAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAAAT 122  
DB 447 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyAlaSerAspGlnValGlnAsnAsn 466  
QY 123 GGCCTCATTCATGCTTTTGGGGCCCTTTTCATCAGGAATGGAGCTGTCTCAGCGCTCC 182

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Db 487 IleGlnLeuGluSerIleGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 506  
QY 243 ATCTGGACAGACCGTGGGAAAGACACTTTGTTCTTATCACCCTGGACAAACGCGCT 302  
Db 507 IleValAspSerThrValGlyAspThrLeuPheLeuIleThrTrpThrGlnPro 526  
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QY 363 AACACAAAATGGCTTACCTCCAAATCCAGGCAATTCCTAAGCTTGGCACTTGGAAATAC 422  
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QY 1263 GTTGATAAGTTCGATCTGAAATCAGAAATATCCAAATTCAGACGAGTATCTTTGTTTATT 1322  
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RESULT 5  
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; Sequence 192, Application US/09981353  
; Patent No. US20020160382A1  
; GENERAL INFORMATION:  
; APPLICANT: Lasek, Amy W.  
; APPLICANT: Jones, David A.  
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
; FILE REFERENCE: PA-0038 US  
; CURRENT APPLICATION NUMBER: US/09/981,353  
; CURRENT FILING DATE: 2001-10-11  
; NUMBER OF SEQ ID NOS: 194  
; SOFTWARE: PERL Program  
; SEQ ID NO 192  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CD1  
US-09-981-353-192  
Alignment Scores:  
Pred. No.: 3 18e-218 Length: 914  
Score: 2521.00 Matches: 488  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 82.93% Indels: 0  
DB: 9 Gaps: 0  
US-09-049-696-19 (1-1693) x US-09-981-353-192 (1-914)

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QY 63 GAGCTGTCCAAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGACAAT 122  
Db 447 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn 466  
QY 123 GCCTCATTTGATGCTTTTGGGCGCTTTCATCAGGAAATGGAGCTCTCTCAGCGCTCC 182  
Db 467 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486  
QY 183 ATCCAGCTTGAGATAAGGATTAACCTCCAGAACAGCAGTGGATGAATGGCACAGTG 242  
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QY 243 ATCTGGACAGACCGTGGGAAAGACACTTTGTTCTTATCACCCTGGACAAACGCGCT 302  
Db 507 IleValAspSerThrValGlyAspThrLeuPheLeuIleThrTrpThrGlnPro 526  
QY 303 CCCCAAACTCTCTCTGGATCCAGTGACAGACAGGCTGCTTCTAGTGACAAA 362  
Db 527 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyGlyPheValValAspLys 546

QY 363 AACACCAAAATGGCTTACCTCAATCCAGGCAATGCTTAAGTTGGCACTTGGAAATAC 422  
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QY 483 ACCCTGCTCCCAATACAGTGTCTCCAAAACGACCAAGGACACCAAGCAAAATCCCCAGC 542  
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QY 543 CCTCTGGTAGTTATGCAAAATATCGCAAGAGGCTCCCAATCTCAGGCGCCAGTGTG 602  
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US-09-833-245-2054  
; Sequence 2054, Application US/09833245  
; Publication No. US20040010134A1  
; GENERAL INFORMATION:  
; APPLICANT: Human Genome Sciences, Inc.  
; TITLE OF INVENTION: Albumin Fusion Proteins  
; FILE REFERENCE: PFS46PCT  
; CURRENT APPLICATION NUMBER: US/09/833.245  
; CURRENT FILING DATE: 2001-04-12  
; PRIOR APPLICATION NUMBER: 60/229, 358  
; PRIOR FILING DATE: 2000-04-12  
; PRIOR APPLICATION NUMBER: 60/256, 931  
; PRIOR FILING DATE: 2000-12-21  
; PRIOR APPLICATION NUMBER: 60/199, 384  
; PRIOR FILING DATE: 2000-04-25  
; NUMBER OF SEQ ID NOS: 2267  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 2054  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-833-245-2054  
Alignment Scores:  
Pred. No.: 3,18e-218 Length: 914  
Score: 2521.00 Matches: 488  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 82.93% Indels: 0  
DB: 11 Gaps: 0  
US-09-049-696-19 (1-1683) x US-09-833-245-2054 (1-914)  
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QY 183 ATCCAGCTTGAGAGTAAGGGATTAAACCTCCAGAACACCGAGTGATGAATGGCACAGTG 242  
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US-10-025-380-1066
; Sequence 1066, Application US/10025380
; Publication NO. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
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; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick Thomas S.
; APPLICANT: Carter, Darick
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C14
; CURRENT APPLICATION NUMBER: US/10/025,380
; CURRENT FILING DATE: 2001-12-19
; NUMBER OF SEQ ID NOS: 1129
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1066
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-025-380-1066
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Pred. No.: 3,18e-218 Length: 914
Score: 2521.00 Matches: 488
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 82.93% Indels: 0
DB: 13 Gaps: 0
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US-09-049-696-19 (1-1683) x US-10-025-380-1066 (1-914)

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Db 447 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyAlaSerAspGlnValGlnAsnAsn 466
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US-10-270-595-6  
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; Publication No. US20030078409A1  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595

; CURRENT FILING DATE: 2002-10-16  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; US-10-270-595-6  
  
Alignment Scores:  
Pred. No.: 3,188-218 Length: 914  
Score: 2521.00 Matches: 488  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 82.93% Indels: 0  
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US-09-049-696-19 (1-1683) x US-10-270-595-6 (1-914)  
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Db 567 SerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThrSerArgAlaSerAsnAla 586  
QY 483 ACCCTGCCTCAATTTACAGTGACTTTCCAAACGAAACAGGACACCAGCAAAATTTCCCGCAGC 542



Db 587 ThrLeuProProlleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 606  
QY 543 CCTCTGGTAGTTATGCAATATTCGCCAAGAGCCTCCCAATTCCTCAGGCGCAGTGC 602  
Db 607 ProLeuValValThrAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 626  
QY 603 ACAGCCCTGATTGATCAGTGAATGAAACACAGTTACCTTGGAACTACTGATGATGAA 662  
Db 627 ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuGluLeuLeuAspAsnGly 646  
QY 663 GCAGTGTCTGACTAAGATGACGCTCTCACTCAAGTATTTCACAACTTATGAC 722  
Db 647 AlaGlyAlaAspAlaThrLysAspGlyValThrSerArgTyrPheThrThrTyrAsp 666  
QY 723 ACCAATGGTAGATACAGTCTAAAGTTCGGGGCTCTGGAGGAGTTAAACGACGACAGCG 782  
Db 667 ThrAsnGlyArgTyrSerValLysValAlaGlaLeuGlyGlyValAsnAlaAlaArgArg 686  
QY 783 AGAGTGATACCCAGCAGAGTGGACCTGTACATACCTGGCTGGGATGAGATGATGAA 842  
Db 687 ArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGlyTyrIleGluAsnAspGlu 706  
QY 843 ATACAATGAATCCACCAAGACTGAAATTAATGAAGATGATCTTCAACACAGCAAGTG 902  
Db 707 IleGlnTrpAsnProProArgProGluIleAsnLysAspValGlnHisLysGlnVal 726  
QY 903 TGTTCACGAGAACATCTCGGAGGCTCATTTGTGGCTTCTGATCTCCCAATGTCTCC 962  
Db 727 CysPheSerArgThrSerSerGlyGlySerPheValAlaSerAspValProAsnAlaPro 746  
QY 963 ATACTGTATCTTCCACTGCCAAATCACCGACTGAAAGCGGAAATCACGGGGC 1022  
Db 747 IleProAspLeuPheProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyGly 766  
QY 1023 AGTCTCATTAATCTGACTGGACAGCTCTGGGATGATGATGACCATGGAACAGCTCAC 1082  
Db 767 SerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyrAspHisGlyThrAlaHis 786  
QY 1083 AAGTATATCATTCGAATAGTACAAAGTATCTTGTATCTCAGAGACAAAGTTCAATGAATCT 1142  
Db 787 LysTyrIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 806  
QY 1143 CTTCAAGTGAATACATCTCTCTCATCCCAAGGAGCCAACTCTGAGGAAGTCTTTTG 1202  
Db 807 LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluGluValPheLeu 826  
QY 1203 TTTAAACGAGAAACATTAATCTTTGAAATGSCACAGATCTTTTCACTTATCAGGCT 1262  
Db 827 PheLysProGluAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla 846  
QY 1263 GTTGATAAGTTCGATCTGAAATCAGAAATATCCAACTGACGAGTATCTTTGTTTATT 1322  
Db 847 ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle 866  
QY 1323 CTTCCACAGACTCCGCCAGAGACACTAGTCTGATGAAACGCTCTGCTCTTGTCTCAAT 1382  
Db 867 ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn 886  
QY 1383 ATTCAATACACAGACACCATCTGTCATTCATTTTAAATTAATGATGGAGTGAGTA 1442  
Db 887 IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLysTrpIle 906  
QY 1443 GGAGAACTGCAGCTGTCAATAGCC 1466  
Db 907 GlyGluLeuGlnLeuSerIleAla 914

## RESULT 9

US-10-235-994-26

; Sequence 26, Application US/10235994

; Publication No. US20030101002A1

; GENERAL INFORMATION:

; APPLICANT: Bartha, Gabor

; APPLICANT: Walker, Michael  
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS  
; FILE REFERENCE: ICYTP012

; CURRENT APPLICATION NUMBER: US/10/235,994

; PRIORITY FILING DATE: 2002-09-04

; PRIOR APPLICATION NUMBER: US/10/003,608

; PRIOR FILING DATE: 2001-11-01

; PRIOR APPLICATION NUMBER: 60/245,081

; PRIOR FILING DATE: 2000-11-01

; NUMBER OF SEQ ID NOS: 30

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 26

; LENGTH: 914

; TYPE: PRT

; ORGANISM: Human

US-10-235-994-26

## Alignment Scores:

Pred. No.:	3,18e-218	Length:	914
Score:	2521.00	Matches:	488
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	82.93%	Indels:	0
DB:	14	Gaps:	0

US-09-049-696-19 (1-1693) x US-10-235-994-26 (1-914)

QY 3 CAAAGTGGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAAGTAGAG 62

Db 427 GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 446

QY 63 GAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAT 122

Db 447 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn 466

QY 123 GGCCTCATGTATGCTTTTGGGGCCCTTTCATCAGGAAATGGAGCTCTCTCAGCGCTCC 182

Db 467 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486

QY 183 ATCCAGCTTGAGAGTAAGGATTAAACCTCCAGAACAGCAGTGGATGAATGGCACAGTG 242

Db 487 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 506

QY 243 ATCTGGAGCAGACCCCTGGGAAAGGACACTTTTCTTTATCACCTGGACAAACGACGCT 302

Db 507 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 526

QY 303 CCCCATAATCCTTCTCTGGGATCCAGTGACAGAACAGGCTGGCTTTGTAGTGGACAAA 362

Db 527 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys 546

QY 363 AACACCAAAATGGCTTACCTCCAAATCCAGGCAATTCGTAAGTTGGCACTTGGAAATAC 422

Db 547 AsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyr 566

QY 423 AGTCTGCAAGCAGCTCACAACCTTTGACCTGACTGTGTACCTGCCGTCCGTCCTCAATGCT 482

Db 567 SerLeuGlnAlaSerSerGlnThrLeuThrValThrSerArgAlaSerAsnAla 586

QY 483 ACCCTGCTCCAAATTCAGTGACTTCCAAAACGAAACAGACACACAGCAAAATTCGCCAGC 542

Db 587 ThrLeuProProlleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 606

QY 543 CCTCTGGTAGTTATGCAATATTCGCCAAGAGCCTCCCAATTCCTCAGGCGCAGTGC 602

Db 607 ProLeuValValThrAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 626

QY 603 ACAGCCCTGATTGAATCAGTGAATGAAACAGATTACCTTGGAACTACTGGAATAATGGA 662

Db 627 ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuGluLeuLeuAspAsnGly 646

QY 663 GCAGTGTGTATGCTTACTTAAGGATCAGGCTGTCTACTCAAGGTATTTCACAACTTAGAC 722

Db 647 AlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAsp 666  
QY 723 ACCAATGGTAGATACAGTCTAAAGTGGCGGCTCTGGAGGAGTAAACACACCCAGACGG 782  
Db 667 ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArg 686  
QY 783 AGAGTGATACCCAGCAGAGTGGACACTGTATACATCCTGGCTGGATTGAGAAATGATGAA 842  
Db 687 ArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGlyTrpIleGluAsnAspGlu 706  
QY 843 ATACAATGAATCCACAGACTGAATTAATATAGGATGATGTTCAACACAAAGCAAGTG 902  
Db 707 IleGlnTrpAsnProProArgProGluIleAsnLysAspValGlnHisLysGlnVal 726  
QY 903 TGTTCACAGACACATCCTCGGAGGCTCATTTGGCTTCTGATGTCCTCCAAATGCTCC 962  
Db 727 CysPheSerArgThrSerSerGlyGlySerPheValAlaSerAspValProAsnAlaPro 746  
QY 963 ATACCTGATCTCTCCACCTGGCCAAATCACCGACCTGAAGCGGAAATTCACGGGGC 1022  
Db 747 IleProAspLeuPheProProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyGly 766  
QY 1023 AGTCATTAATCTGACTTGGACAGCTCCTGGGATGATATGACATGGAACAGCTCAC 1082  
Db 767 SerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyrAspHisGlyThrAlaHis 786  
QY 1083 AAGTATATCATTCGAATAGTACAAGTATCTTGTATCTCAGACAGCAAGTTCAATCAATCT 1142  
Db 787 LysTyrIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 806  
QY 1143 CTTCAAGTGAATACTACTCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTTGT 1202  
Db 807 LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluValPheLeu 826  
QY 1203 TTAAACACAGAAAACATCTTTGAAATGGACAGATCTTTTCATTGCTATTGAGCT 1262  
Db 827 PheLysProGluAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla 846  
QY 1263 GTTGATAGGTCGATCGAATCAGAAATATCCAACTGACAGATCTTTGTTTATT 1322  
Db 847 ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle 866  
QY 1323 CTTCCACAGACTCCGCCAGACACTAGTCTGTGATGAACCTCTGTCTTGTCTTAAT 1382  
Db 867 ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn 886  
QY 1383 ATTATATCAACAGACACCATCTCTGCAATTCATTTTAAATAATTATGTGGAAGTGATA 1442  
Db 887 IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLysTrpIle 906  
QY 1443 GGAGACTGCAGCTCTCAATAGCC 1466  
Db 907 GlyGluLeuGlnLeuSerIleAla 914

## RESULT 10

US-10-060-255-42  
; Sequence 42, Application US/10060255  
; Publication No. US20030113840A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 25 Human secreted proteins  
; FILE REFERENCE: P2042P1  
; CURRENT APPLICATION NUMBER: US/10/060,255  
; CURRENT FILING DATE: 2002-02-01  
; PRIOR APPLICATION NUMBER: 09/781,417  
; PRIOR FILING DATE: 2001-02-13  
; PRIOR APPLICATION NUMBER: PCT/US00/22325  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: 60/149,182  
; PRIOR FILING DATE: 1999-08-17  
; NUMBER OF SEQ ID NOS: 86  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 42

; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-060-255-42  
Alignment Scores:  
Pred. No.: 3,18e-218 Length: 914  
Score: 2521.00 Matches: 488  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 82.93% Indels: 0  
DB: 14 Gaps: 0  
US-09-049-696-19 (1-1683) x US-10-060-255-42 (1-914)  
QY 3 CAAGTGTGTCATCATCCACACAGTCCCTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62  
Db 427 GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 446  
QY 63 GAGCTGTCCAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGATTTCAGAACAA 122  
Db 447 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn 466  
QY 123 GGCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCTCC 182  
Db 467 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486  
QY 183 ATCCAGCTTGAGATAGGATTAACCTCCAGAACACCCAGTGTGATGAATGGCACAGTG 242  
Db 487 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 506  
QY 243 ATCGTGGACACACCGTGGGAAAGGACACTTTTGTTCATCACCCTGGACACACGAGCT 302  
Db 507 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 526  
QY 303 CCCCAAAATCTCTCTGGGATCCCAAGTGGACAGAGCAAGGTGGCTTTGTAGTGACAAA 362  
Db 527 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys 546  
QY 363 AACACCAAAATGGCTACTCTCAAAATCCAGGATGCTTAAGTTGGCACTTGGAAATAC 422  
Db 547 AsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyr 566  
QY 423 AGTCTGCAAGCAAGCTCAAAACCTTGACCTGTGACCTGTGACCTCCCGTCGTCCTCAATGCT 482  
Db 567 SerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThrSerArgAlaSerAsnAla 586  
QY 483 ACCCTGCTCCAAATTCAGTGAATTCCTCAAAACGAAACAGGACACCCAGCAAAATTCCTCCAGC 542  
Db 587 ThrLeuProProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 606  
QY 543 CCTCTGGTAGTTTATGCAAAATATTCGCCAAGAGGCTCCCAATTCCTCAGGGCCAGTGTC 602  
Db 607 ProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 626  
QY 603 ACAGCCCTGATGAATCAGTGAATGGRAAAACAGTTACTTGGAACTACTGGATTAATGGA 662  
Db 627 ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuGluLeuLeuAspAsnGly 646  
QY 663 GCAGGTGCTGATGCTACTTAAGGATGACGGTGTCTACTCAAGGTATTTTCACAACTTATGAC 722  
Db 647 AlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAsp 666  
QY 723 ACGAATGTAGATACAGTGTAAAAGTGGGGCTCTGGAGAGAGTAAACGACCCAGACGG 782  
Db 667 ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyValAsnAlaAlaArg 686  
QY 783 AGAGTGATACCCAGCAGAGTGGACACTGTATACCTGCTGCTGATGAGATGATGATGAA 842  
Db 687 ArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGlyTrpIleGluAsnAspGlu 706  
QY 843 ATACAATGAATCCCAAGACCTCAATTAATTAAGGATGATGTTCAACACAAAGCAAGTG 902

Db 707 IleGlnTrpAsnProProArgProGluIleAsnLysAspAspValClnHisLysGlnVal 726  
QY 903 TGTTCAGAGAACATCTCTCGGAGGCTCATTTGGCTTCTGATGTCCTCCAAATGCTCCC 962  
Db 727 CysPheSerArgThrSerSerGlyGlySerPheValAlaSerAspValProAsnAlaPro 746  
QY 963 ATACCTGATCTCTCCACCTCGCAATATCAGGACCTGAAAGCGGAAATTCACGGGGC 1022  
Db 747 IleProAspLeuPheProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyGly 766  
QY 1023 AGTCTCATTAATCTGACTTGGACAGCTCTCGGGGATGATTATGACCATGGAACAGCTCAC 1082  
Db 767 SerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyrAspHisGlyThrAlaHis 786  
QY 1083 AAGTATATCATTCGAATAAGTACAAGTATCTTGATCTCAGACACAAGTTCATTAATCT 1142  
Db 787 LysTyrIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 806  
QY 1143 CTTCAAGTCAATACTACTCTCTCATCCCAAGGAGCCAACTCTGAGGAAGTCTTTTG 1202  
Db 807 LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluGluValPheLeu 826  
QY 1203 TTTAAACAGAGAAAACATTAATTTGAAAATGACAGATCTTTTCATTCCTATTCAGGCT 1262  
Db 827 PheLysProGluAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla 846  
QY 1263 GTTGATAAGGTCGATCTGAAATCAGAAATATCAACATTCAGCAGATATCTTTGTTTAT 1322  
Db 847 ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle 866  
QY 1323 CTCCACAGACTCCGCGAGAGACACTAGTCTGATGAAACGTCTGCTCTCTGCTCTAAT 1382  
Db 867 ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn 886  
QY 1383 ATTATATCAACAGACACCATCTCGCATTCACATTTTAAAAATATGGAAGTGGATA 1442  
Db 887 IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLysTrpIle 906  
QY 1443 GGAGAACTGCAGCTGTCAATAGCC 1466  
Db 907 GlyGluLeuGlnLeuSerIleAla 914

RESULT 11  
US-09-764-868-635  
; Sequence 635, Application US/09764868  
; Patent No. US20020168711A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PT232  
; CURRENT APPLICATION NUMBER: US/09/764,868  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 1510  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 635  
; LENGTH: 925  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-764-868-635

Alignment Scores:  
Pred. No.: 3,19e-218 Length: 925  
Score: 2521.00 Matches: 488  
Percent Similarity: 100.00% Conservatives: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 82.93% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-19 (1-1683) x US-09-764-868-635 (1-925)

QY 3 CAAAGTGTGCCATCATTCACACAGTCGCTTTGGGGCCCTCTGCGACTCAAGACTAGAG 62  
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Db 438 GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 457  
QY 63 GAGCTGTCCAAATAACAGAGAGTTTACAGACATATGCTTTCAGATCAAACTTCAGAACAA 122  
Db 458 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn 477  
QY 123 GGCCTCATTGATGCTTTTGGGGCCCTTTCATCAGGAAATGGAGCTGCTCTCAGCGCTCC 182  
Db 478 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 497  
QY 183 ATCCAGCTTGAGAGTAAGGGATTAACTCCAGAACAGCAGCTGGATGAATGGCACAGTG 242  
Db 498 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 517  
QY 243 ATCTGGGACAGCACCGTGGGAAAGACACTTTGTTTCTTATCACCTGGGACAAACGACGCT 302  
Db 518 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 537  
QY 303 CCCAAATCCTTCTCTGGGATCCCAAGTGGACAGAGCAAGGTGGCTTTGTTAGTGACAA 362  
Db 538 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys 557  
QY 363 AACACCAAAATGGCTTACCTCCAAATCCAGGCATTTGCTAAGGTTGGCACTTGGAAATAC 422  
Db 558 AsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyr 577  
QY 423 AGTCTGCAAGCAAGCTCAAAACCTTGACCTTGACTGTGCACGTCCTCGCTGCTCAATGCT 482  
Db 578 SerLeuGlnAlaSerSerGlnThrLeuThrValThrSerArgAlaSerAsnAla 597  
QY 483 ACCCTGCTCCAAATTACAGTGACTTCCAAAACGAAACAGGACACACGAAATTTCCACGC 542  
Db 598 ThrLeuProProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 617  
QY 543 CTTCTGGTAGTTTATGCAAAATATTCGCAAGCAGCTCCCAATTTCTCAGGCGCAGTGTC 602  
Db 618 ProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 637  
QY 603 ACAGCCTCTGATTGAATCAGTGAATGGAATAACAGTTACCTTGGAACTACTGGATATGGA 662  
Db 638 ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuGluLeuLeuAspAsnGly 657  
QY 663 GCAGTGTGTGCTTACTAAGGATCAGCGTGTCTACTCAAGTATTTTCAACTTATGAC 722  
Db 658 AlaGlyAlaAspAlaThrLysAspGlyValTyrSerArgTyrPheThrThrTyrAsp 677  
QY 723 ACGAATGTTAGATACAGTGTAAAGTGGGGCTCTGGGAGGAGTTAAACCCAGCAGACGG 782  
Db 678 ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArg 697  
QY 783 AGAGTGATACCCCGACAGAGTGGACACTGTACATACCTGCTGGCTGGATTGAGAAATGATGA 842  
Db 698 ArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGlyTrpIleGluAsnAspGlu 717  
QY 843 ATACAATGGAATCCACAGACCTGAAATTAATAGGATGATGTTCAACACAGCAAGTG 902  
Db 718 IleGlnTrpAsnProProArgProGluIleAsnLysAspAspValGlnHisLysGlnVal 737  
QY 903 TGTTCACGAGAACATCTCGGAGGCTCATTTGGCTTCTGATGTCCTCCAAATGCTCCC 962  
Db 738 CysPheSerArgThrSerSerGlySerPheValAlaSerAspValProAsnAlaPro 757  
QY 963 ATACCTGATCTCTTCCACCTGGCAAAATCACCGACCTGAAGCGGAAATTCACGGGGC 1022  
Db 758 IleProAspLeuPheProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyGly 777  
QY 1023 AGTCTCATTAATCTGACTTGGACAGCTCTCGGGGATGATTATGACCATGGAACAGCTCAC 1082  
Db 778 SerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyrAspHisGlyThrAlaHis 797  
QY 1083 AAGTATATCATTCGAATAAGTACAAGTATCTTGTATCTCAGAGACAAGTTCATTAATCT 1142  
Db 798 LysTyrIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 817

QY 1143 CTTCAAGTGAATACCTCTCTCCCAAGGAGCCAACTCTGAGGAAGCTCTTTTG 1202  
Db |||||||  
818 LeuGlnValAsnThrThrAlaLeuLeuProLysGluAlaAsnSerGluValPheLeu 837  
QY 1203 TTTAAACCAAGAAACATTAATTTGAAATGACACAGATCTTTTCATTCTATTGAGGCT 1262  
Db |||||||  
838 PheLysProGluAsnLeuThrPheGluAsnGlyThrAspLeuPheLeuAlaGlnAla 857  
QY 1263 GTTGATAGGTGATCTGAAATCAGAAATATCAACATTGACAGAGTATCTTTGTTATT 1322  
Db |||||||  
858 ValAspLysValAspLeuLysSerGluLeuSerAsnLeuAlaArgValSerLeuPheLeu 877  
QY 1323 CTTCCACAGACTCCGACAGACACTCTCTGTAAGACCTCTCTCTCTCTCTCTCTCT 1382  
Db |||||||  
878 ProProGlnThrProProGlnThrProSerProAspGluThrSerAlaProCysProAsn 897  
QY 1383 ATTATATCAACAGACACCACTCTCTGCAATTCACATTTTAAATAATTATGTGGAAGTGGATA 1442  
Db |||||||  
898 IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLysTrpIle 917  
QY 1443 GGAGAACTGCAGCTGTCAATAGCC 1466  
Db |||||||  
918 GlyGluLeuGlnLeuSerIleAla 925

## RESULT 12

US-10-106-698-6248  
; Sequence 6248, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 6248  
; LENGTH: 925  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-106-698-6248

## Alignment Scores:

Pred. No.:	3,198-218	Length:	925
Score:	2521.00	Matches:	488
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	82.93%	Indels:	0
DB:	14	Gaps:	0

US-09-049-696-19 (1-1693) x US-10-106-698-6248 (1-925)

QY 3 CAAAGTGGTGCCATCATCCACACAGTCTGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62  
Db |||||||  
438 GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnLeuGlu 457  
QY 63 GAGCTGTCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTGAGAACAAAT 122  
Db |||||||  
458 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyAlaSerAspGlnValGlnAsnAen 477  
QY 123 GGCCTCATGTGCTTTGGGGCCCTTTTCATCAGAAATGGAGCTGCTCTCAGCGCTCC 182  
Db |||||||  
478 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 497  
QY 183 ATCCAGCTTGAGATGAGGATTAACCTCTCCAGAACAGCCAGTGGATCAATGGCACAGTG 242  
Db |||||||

Db 498 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 517  
QY 243 ATCTGGACACACCGTGGGAAAGGACACACTTTTCTTATCACCCTGACACGAGCCT 302  
Db |||||||  
518 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 537  
QY 303 CCCAAATCTCTCTGGGATCCAGAGTGGACAGAGCAAGGTGGCTTTGTAGTGACAAA 362  
Db |||||||  
538 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys 557  
QY 363 AACACCAAAATGGCTACTCCAAATCCAGGCAATGTAAGTTGGCACTTGGAAAATAC 422  
Db |||||||  
558 AsnThrLysMetAlaTyThrLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTy 577  
QY 423 AGTCTGCAAGCAAGCTCAAAACCTTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 482  
Db |||||||  
578 SerLeuGlnAlaSerSerGlnThrLeuThrValThrSerArgAlaSerAsnAla 597  
QY 483 ACCCTGCTCCAAATTCACAGTGACTTCCAAAGCAAGGACACACAGCAAAATTTCCCCAGC 542  
Db |||||||  
598 ThrLeuProProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 617  
QY 543 CCTCTGTAGTTATGCAATATTGCGCAAGAGCCTCCCAATTTCTCAGGCCAGTGTC 602  
Db |||||||  
618 ProLeuValValTyAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 637  
QY 603 ACAGCCCTGATTGAATCAGTCAATGGAAGAAACAGTTACTTGGAACTACTGGATAATGGA 662  
Db |||||||  
638 ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuGluLeuLeuAspAsnGly 657  
QY 663 GCAGTGTCTGATGCTACTTAAGGATGACGCTGCTACTCAAGTATTTCACAACCTTATGAC 722  
Db |||||||  
658 AlaGlyAlaAspAlaThrLysAspAspGlyValTySerArgTyThrThrTrpAsp 677  
QY 723 ACGAATGTAGATACAGTGTAAAAGTGGGCTCTGGAGGAGTTTAAACGACCCAGAGCG 782  
Db |||||||  
678 ThrAsnGlyArgTyThrValLysValArgAlaLeuGlyGlyValAsnAlaAlaArg 697  
QY 783 AGAGTGATACCCGACGAGTGGGACACTGTACATACCTGCTGCTGCTGCTGCTGCTGCTGCT 842  
Db |||||||  
698 ArgValIleProGlnGlnSerGlyAlaLeuTyTrpIleProGlyTrpIleGluAsnAspGlu 717  
QY 843 ATACAATGGAATCCACCAAGACCTGAAATTAATAGGATGATGTTCAACACACAAAGTG 902  
Db |||||||  
718 IleGlnTrpAsnProProArgProGluLeuAsnLysAspValGlnHisLysGlnVal 737  
QY 903 TGTTCACGACAAATCCTCGGAGGCTCATTTGTGGCTTCTGATGTCCTCAATCTCCTCC 962  
Db |||||||  
738 CysPheSerArgThrSerSerGlySerPheValAlaSerAspValProAsnAlaPro 757  
QY 963 ATACTGATCTCTCCACCTGGCCAAATCACCACCTGGAAGCGGAATTCACGGGGGC 1022  
Db |||||||  
758 IleProAspLeuPheProProGlyGlnIleThrAspLeuLysAlaGluIleHisGly 777  
QY 1023 AGTCTCATTAATCTGACTTGGACAGCTCCTCGGAGTATTATGACCATGGAACAGCTCAC 1082  
Db |||||||  
778 SerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyThrAspHisGlyThrAlaHis 797  
QY 1083 AAGTATATCATTCGAATAAGTACAGTATTCTTGATCTCAGACACAACTCAATCAATCT 1142  
Db |||||||  
798 LysTyrlleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 817  
QY 1143 CTTCAAGTGAATACTACTGCTCTCATCCAAAGGAGCAACTCTGAGGAAGTCTTTTG 1202  
Db |||||||  
818 LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluValPheLeu 837  
QY 1203 TTTAAACCAAGAAACATTAATTTGAAATGGCAGACATCTTTTCATTGCTATTGAGGCT 1262  
Db |||||||  
838 PheLysProGluAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla 857  
QY 1263 GTTGATAGGTGCTGAAATCAGAAATATCCAACTGACGAGTATCTTTGTTATT 1322  
Db |||||||  
858 ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheLeu 877

QY 1323 CCTCCAGACTCCGCCAGAGACACCTAGTCTCTGATGAACGTCGTCTCTTGTCTCAAT 1382  
Db 878 ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAen 897  
QY 1393 ATTCTATCAACAGACACCACTTCTGGCATTACATTTTAAATTTATGGGAAGTGGATA 1442  
Db 898 IleHisIleAsnSerThrIleProGlyIleHisIleLeuIleMetTrpIle 917  
QY 1443 GGAGAACTGCAGTGTCAATAGCC 1466  
Db 918 GlyGluLeuGlnLeuSerIleAla 925

RESULT 13  
US-10-055-412B-28  
; Sequence 28, Application US/10055412B  
; Publication No. US20030059861A1  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 28  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-055-412B-28

Alignment Scores:  
Pred. No.: 5,93e-218 Length: 914  
Score: 2518.00 Matches: 487  
Percent Similarity: 100.00% Conservative: 1  
Best Local Similarity: 99.80% Mismatches: 0  
Query Match: 82.83% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-19 (1-1683) x US-10-055-412B-28 (1-914)

QY 3 CAAGTGGTGCCATCATCCACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62  
Db 427 GlnSerGlyAlaIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 446  
QY 63 GAGCTGTCCAAATGACAGGAGGTTTACAGACATATGCTTTCAGATCAAGTTTCAGAACAA 122  
Db 447 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAen 466  
QY 123 GGCCTCATGTGCTTTGGGGCCCTTTCATCAGGAATGAGCTGTCTCTCAGCGCTCC 182  
Db 467 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486  
QY 183 ATCCAGCTTGAGTAAGGGTTAAACCTCCAGAGACAGCCAGTGGATGAATGGCACAGTG 242  
Db 487 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 506  
QY 243 ATCGTGGACAGCAGCTGGGAAAGGACACTTTGTTTCTTATCACTTGGACAAACGAGCCT 302  
Db 507 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 526  
QY 303 CCCCAAACTCTTCTCTGGGATCCAGTGACAGAGAGGAGGCTTTGTAGTGACAAA 362  
Db 527 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys 546  
QY 363 AACACCAAACTGCCTACCTCAAACTCCAGGACATGCTTAAGCTTGGCACTTGGAAATAC 422  
Db 547 AsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyr 566

RESULT 14

QY 423 AGTCTGCAAGCAAGCTCAAAACCTTGGACCTCTGACTGTCACTCCGTCGCTCCAAATGCT 482  
Db 567 SerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThrSerArgAlaSerAenAla 586  
QY 483 ACCCTGCGCTCCAAATTACAGTGACTTCCAAAGCAAGACAGGACACAGCAAAATCCCCAGC 542  
Db 587 ThrLeuProProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 606  
QY 543 CCTCTGGTAGTTTATGCAAAATATTCGCAAGAGAGCTCCCCAAATTTCTCAGGCGCCAGTGT 602  
Db 607 ProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 626  
QY 603 ACAGCCCTGATTGAATCAGTGAATGAAACACAGTTACTTGGAACTACTGATGAATGGA 662  
Db 627 ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuGlnLeuLeuAspAsnGly 646  
QY 663 GCAGGTGCTGATGCTACTAAGGATCAGCGTGCTACTCAAGGTATTTTCACTTATGAC 722  
Db 647 AlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAsp 666  
QY 723 ACGAATGCTAGATACAGTGTAAAGCTGGGGCTCTGGGAGGAGTTAAACGACGACGCG 782  
Db 667 ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArg 686  
QY 783 AGAGTGATACCCAGCAGAGTGAGCAGCTGTATACCTGCTGGTGGATGAGATGATGAA 842  
Db 687 ArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGlyTrpIleGluAsnAspGlu 706  
QY 843 ATACAATGGAATCCACCAAGACCTGAAATTAATAGGATGATGTTTCACACAGCAAGTG 902  
Db 707 IleGlnTrpAsnProProArgProGluIleAsnLysAspAspValGlnHisLysGlnVal 726  
QY 903 TGTTCACGACAGAACTCTCGGGAGGCTCATTTGTGGCTTCTGATGTCCTCAATGCTCCC 962  
Db 727 CysPheSerArgThrSerSerGlySerPheValAlaSerAspValProAsnAlaPro 746  
QY 963 ATACCTGATCTCTTCCACCTGGCCAAATCAACCGACCTGGAAGCGGAAATTCACGGGGC 1022  
Db 747 IleProAspLeuPheProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyGly 766  
QY 1023 AGTCTCATTAATCTGACCTGGACAGCTCTGGGGATGATTATGACCATGGAACAGCTCAC 1082  
Db 767 SerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyrAspHisGlyThrAlaHis 786  
QY 1083 AAGTATATCATTCGAATAAGTACAAGTATCTTGTGATCTCAGAGACAAGTTCAATGAATCT 1142  
Db 787 LysTyrIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 806  
QY 1143 CTTCAAGTGAATPATCTACTGCTCTCATCCAAAGGAAGCAACTCTGAGGAAGTCTTTTGTG 1202  
Db 807 LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluGluValPheLeu 826  
QY 1203 TTTAAACCAAGAAACATTTACTTTTGAATGGCAGAGATCTTTTTCATGCTATTGAGGCT 1262  
Db 827 PheLysProGluAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla 846  
QY 1263 GTTGTAAAGTGCATCTGAAATATCAAAATATCCAACTTGCACGAGTATCTTTGTATT 1322  
Db 847 ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle 866  
QY 1323 CTTCCACAGACTCCGCCAGAGACACCTAGTCTGTATGAAACGCTGTGCTTGTCTCTAAT 1382  
Db 867 ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAen 886  
QY 1383 ATTCTATCAACAGACACCACTTCTGGCAATTCACATTTTAAATTTATGGAAGTGGATA 1442  
Db 887 IleHisIleAsnSerThrIleProGlyIleHisIleLeuIleMetTrpLysTrpIle 906  
QY 1443 GGAGAACTGCAGTGTCAATAGCC 1466  
Db 907 GlyGluLeuGlnLeuSerIleAla 914

US-10-369-214-133  
; Sequence 133, Application US/10369214  
; Publication No. US2003023037A1  
; GENERAL INFORMATION:  
; APPLICANT: Groot, Pieter C.  
; APPLICANT: Berghenhouwen van, Bram J.  
; APPLICANT: Oosterhout van, Antoon J.M.  
; TITLE OF INVENTION: Genes involved in immune related responses observed  
; TITLE OF INVENTION: with asthma  
; FILE REFERENCE: P53837US00  
; CURRENT APPLICATION NUMBER: US/10/369,214  
; CURRENT FILING DATE: 2003-02-15  
; PRIOR APPLICATION NUMBER: EP 00202867.8  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: PCT/NL01/00610  
; PRIOR FILING DATE: 2001-08-16  
; NUMBER OF SEQ ID NOS: 139  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 133  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (1)..(914)  
; OTHER INFORMATION: /note="Human CLCA1"  
US-10-369-214-133

Alignment Scores:  
Pred. No.: 8,986-218 Length: 914  
Score: 2516.00 Matches: 487  
Percent Similarity: 99.80% Conservative: 0  
Best Local Similarity: 99.80% Mismatches: 1  
Query Match: 82.76% Indels: 0  
DB: 15 Gaps: 0

US-09-049-696-19 (1-1683) x US-10-369-214-133 (1-914)

QY 3 CAAAGTGTGCCATATCCACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGACTAGAG 62  
DB 427 GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 446  
QY 63 GAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAA 122  
DB 447 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyAlaSerAspGlnValGlnAsnAsn 466  
QY 123 GGCCTCATTGATGCTTTGGGGCCCTTTTCATCAGAAATGGAGTGTCTCTCAGCGCTCC 182  
DB 467 GlyLeuLeuAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486  
QY 183 ATCCAGCTTGAGCTAAGGATTAACTCCAGAACAGCCAGTGGATGATGGCAGCTG 242  
DB 487 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 506  
QY 243 ATCGTGGACAGACCGCTGGGAAAGACACTTTGTTTCTTATCACCTGGACACGCGCT 302  
DB 507 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 526  
QY 303 CCCCAAATCTCTCTGGGATCCAGTGGACAGAGAGAGTGGTGTGTAGTGACAAA 362  
DB 527 ProGlnLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys 546  
QY 363 AACACCAATGGCTACTCCAAATCCAGGCATTGCTAGGTTGGCACTTGGAAATAC 422  
DB 547 AsnThrLysMetAlaTyLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTy 566  
QY 423 AGTCTGCAAGCAAGCTCAGAACTTGACCTTGACTGTCACTCCCGTCCGCTCCCAATGT 482  
DB 567 SerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThrSerArgAlaSerAsnAla 586  
QY 483 ACCCTGCTCCCAATACAGTGAATCCAAAACGAAACAGGACACCAAGCAATCCCGCAGC 542  
DB 587 ThrLeuProProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 606

QY 543 CCTCTGTAGTTTATGCAAAATATTCGCCAAGGAGCCTCCCAATTTCTCAGGCCAGTGTG 602  
DB 607 ProLeuValValTyAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 626  
QY 603 ACAGCCCTGATGAATCAGTGAATGGAATAACAGTTACTTGGAACTACTGGATTAATGA 662  
DB 627 ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuGluLeuLeuAspAsnGly 646  
QY 663 GCAGTGTCTGATGCTACTAAGGATGACGGTCTCTACTCAAGGTATTTCCACACTTATGAC 722  
DB 647 AlaGlyAlaAspAlaThrLysAspAspGlyValTySerArgTyThrTrpThrTyAsp 666  
QY 723 ACGAATGTAGATACAGTGTAAAGTGGCGGCTCTGGGAGGAGTTAAAGCCAGCCAGCGG 782  
DB 667 ThrAsnGlyArgTySerValLysValArgAlaLeuGlyValAsnAlaAlaArgArg 686  
QY 783 AGAGTGATACCCAGCAGAGTGGAGCACTGTACATACCTGCTGGATTTGAGAAATGATGA 842  
DB 687 ArgValIleProGlnGlnSerGlyAlaLeuTyTrpIleProGlyTrpIleGluAsnAspGlu 706  
QY 843 ATACAAATGGAATCCACCAAGACCTGAATTAATGAAGTATGTTCAACACAGCAAGTGT 902  
DB 707 IleGlnTrpAsnProProArgProGluIleAsnLysAspValGlnHisLysGlnVal 726  
QY 903 TGTTTCAGCAGAACATCCTCGGAGGCTCATTTGTGGCTTCTGTGATGTCCTCAAAATCTCCC 962  
DB 727 CysPheSerArgThrSerSerGlySerPheValAlaSerAspValProAsnAlaPro 746  
QY 963 ATACCTGATCTCTCCCACTGGCCAAATCACCGACCTGAAGCGGAAATTCACGGGGC 1022  
DB 747 IleProAspLeuPheProProGlyGlnIleThrAspLeuAsnAlaGluIleHisGlyGly 766  
QY 1023 AGTCTCATTATCTGACTTGGACAGCTCTCGGGAGTATGATGACCATGGACACCTCAC 1082  
DB 767 SerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyAspHisGlyThrAlaHis 786  
QY 1083 AAGTATATCATTCGAATAAGTACAGTATTTCTGATCTCAGAGACAAGTTCAATCAATCT 1142  
DB 787 LysTyIleIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 806  
QY 1143 CTTCAAGTGAATACTACTCTCTCATCCAAAGGAAGCAACTCTGAGGAAGTCTTTTGTG 1202  
DB 807 LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluGluValPheLeu 826  
QY 1203 TTTAAACAGAAAACATTTACTTTTGAATAATGGCAGACATCTTTTCATTGCTATTGAGCT 1262  
DB 827 PheLysProGluAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla 846  
QY 1263 GTTGATAAGGTGCGATCTGAAATCAGAAATATCCAACTTGACAGATGATCTTTGTTTATT 1322  
DB 847 ValAspLysValAspLeuLysSerGluLeuSerAsnIleAlaArgValSerLeuPheIle 866  
QY 1323 CTTCCACAGACTCCGCCAGACACACTAGTCTCTGATGAACGCTCTGCTCTTGTCTTAAT 1382  
DB 867 ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn 886  
QY 1383 ATTCATATCAACAGCACCATTTCTGGCATTCACATTTTAAATAATTTATGTGAGTGGATA 1442  
DB 887 IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLysTrpIle 906  
QY 1443 GGAGAATCTGACGCTGTCAATAGCC 1466  
DB 907 GlyGluLeuGlnLeuSerIleAla 914

## RESULT 15

US-10-106-698-4628

; Sequence 4628, Application US/10106698

; Publication No. US20030103690A1

; GENERAL INFORMATION:

; APPLICANT: Ruben et al.

; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides

; FILE REFERENCE: PA005P1

; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 4628  
; LENGTH: 552  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-106-698-4628

Alignment Scores:  
Pred. No.: 9,07e-218 Length: 552  
Score: 2515.00 Matches: 487  
Percent Similarity: 99.80% Conservative: 0  
Best Local Similarity: 99.80% Mismatches: 1  
Query Match: 82.73% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-19 (1-1683) x US-10-106-698-4628 (1-552)

QY	3	CAAGTGGTCCCATATCCACAGTCGCTCTGGGGCCCTCTGCAGCTCAAGAACTAGAG	62
DB	65	GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu	84
QY	63	GAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTGCAACAAT	122
DB	85	GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn	104
QY	123	GSCTCATTTGCTTTTGGGGCCCTTTCATCAGGAATGGAGCTCTCTCAGCGCTCC	182
DB	105	GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer	124
QY	183	ATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCAGTGGATGAATGGCAGATG	242
DB	125	IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal	144
QY	243	ATCGTGACAGCACCTGGGAAAGGACACTTGTGTTCTTATACCTGGACAGCGACCT	302
DB	145	IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro	164
QY	303	CCCCAAATCTTCTCTGGGATCCAGTGACAGCAAGCTGGCTTCTAGTGGACAA	362
DB	165	ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys	184
QY	363	AACACCAAAATGGCTTACCTCCAAATCCAGGCAATGCTAAGTTGGCACTTGGAAATAC	422
DB	185	AsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyr	204
QY	423	AGTCTGCAAGAGCTCAAAACCTTGACCTTGACTGTCACTGCTCGCTCCCAATGCT	482
DB	205	SerLeuGlnAlaSerSerGlnThrLeuThrValThrSerArgAlaSerAsnAla	224
QY	483	ACCCTGCTCCCAATTCAGTGTCTTCCAAACGAAACGACAGCAATTCCTCCAGC	542
DB	225	ThrLeuProProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer	244
QY	543	CCTCTGGTAGTTTATCAAAATATCCCAAGAGCGCTCCCAATTCCTCAGGGCCAGTGC	602
DB	245	ProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal	264
QY	603	ACAGCCCTGATTGAATCAGTGAATGAAACAGATTACCTTGAACTACTGGATAATGGA	662
DB	265	ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuGluLeuAspAsnGly	284
QY	663	GCAGGTGCTGATGCTACTAAGGATGAGGTGCTACTCAAGGTATTTCAACTTATGAC	722
DB	285	AlaGlyAlaAspAlaThrLysAspGlyValTyrSerArgTyrPheThrThrTyrAsp	304

QY	723	ACGAATGGTAGATACAGTGTATAAAGTGGGGCTCTGGAGAGAGATTAAACGACGACGCG	782
DB	305	ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArg	324
QY	783	AGAGTGATACCCACGACGAGTGTACATACCTGGCTGGATTGAGATGATGAA	842
DB	325	ArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGlyTrpIleGluAsnAspGlu	344
QY	843	ATACAATGGAATCCACCAAGACTGAAATTAATAAGGATGATGTTCAACACAGCAAGTG	902
DB	345	IleGlnTrpAsnProArgProGluIleAsnLysAspValGlnHisGlnVal	364
QY	903	TGTTTCAGCAGAAATCTCTGGAGGCTCATTTGGGCTTCTGATGTCCTCAATGCTCCC	962
DB	365	CysPheSerArgThrSerSerGlyGlySerPheValAlaSerAspValProAsnAlaPro	384
QY	963	ATACCTGATCTCTCCACCTGGCCAAATCAGCGCTCAAGCGGAAATTCACGGGGGC	1022
DB	385	IleProAspLeuPheProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyGly	404
QY	1023	AGTCTCATTAATCTGACTTGGACAGCTCTCTGGGATGATTATGACCATCGAAGCAGCTAC	1082
DB	405	SerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyrAspHisGlyThrAlaHis	424
QY	1083	AAGTATATCATTCGAATAGTACAAAGTATTTCTTGATCTCAGAGACAAGTTCAATGAATCT	1142
DB	425	LysTyrIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer	444
QY	1143	CTTCAAGTGAATACTACTCTCTCATCCCAAGGAGCAACTCTGAGGAAGCTTTTGG	1202
DB	445	LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluGluValPheLeu	464
QY	1203	TTTAAACCAAGAAAACATTACTTTTGAATATGCACAGATCTTTTCAATGCTATTCAAGCT	1262
DB	465	PheLysProGluThrIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla	484
QY	1263	GTTGATAAGGTTCGATCTGAAATCAGAAATATCCAAATTCGACGAGTATCTTTGTTTAT	1322
DB	485	ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle	504
QY	1323	CCTCCACAGACTCCCGCAGAGACACCTAGTCTGATGAACCTCTGCTCTGCTCTTAAT	1382
DB	505	ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn	524
QY	1383	ATTTCATATCAACAGACACCATTCCTGSCATTCACATTTTAAATATATGGAAGTGGATA	1442
DB	525	IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLysTrpIle	544
QY	1443	GGAGAACTGCAGCTGTCAATAGCC	1466
DB	545	GlyGluLeuGlnLeuSerIleAla	552

Search completed: April 21, 2004, 16:56:57  
Job time : 124.335 secs

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GenCore version 5.1.6  
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OM nucleic - protein search, using frame\_plus\_n2p model

Run on: April 21, 2004, 16:13:49 ; Search time 33.8331 Seconds  
(without alignments)  
3840.718 Million cell updates/sec

Title: US-09-049-696-12

Perfect score: 417

Sequence: 1 GACACGAGCAATTCCTCCAG.....CAGTGTAAAGTGGGGCTC 235

Scoring table:

BLASUM62  
Xgapop 10.0, Xgapext 0.5  
Ygapop 10.0, Ygapext 0.5  
Fgapop 6.0, Fgapext 7.0  
Delop 6.0, Delext 7.0

Searched: 1133595 seqs, 276475211 residues

Total number of hits satisfying chosen parameters: 2267190

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

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-O=/cg2\_1/USPTO\_spool\_p/US09049696/runat\_21042004\_154838\_21265/app\_query.fasta\_1.13694  
-DB=Published Applications AA -QFMT=fastan -SUFFIX=n2p.rapb -MINMATCH=0.1  
-LOOPCL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62  
-TRANS=human40.cdi -LIST=45 -DOALIGN=200 -THR SCORE=pct -THR MAX=100  
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-MAXLEN=2000000000 -USFR=US09049696 @CGN 1.1 139 @runat\_21042004\_154838\_21265  
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-LONGLOG -DEV\_TIMEOUT=120 -WARN\_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5  
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Published Applications AA:  
1: /cg2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pap:\*  
2: /cg2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pap:\*  
3: /cg2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pap:\*  
4: /cg2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pap:\*  
5: /cg2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pap:\*  
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7: /cg2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pap:\*  
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9: /cg2\_6/ptodata/2/pubpaa/US09A\_PUBCOMB.pap:\*  
10: /cg2\_6/ptodata/2/pubpaa/US09B\_PUBCOMB.pap:\*  
11: /cg2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pap:\*  
12: /cg2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB.pap:\*  
13: /cg2\_6/ptodata/2/pubpaa/US10A\_PUBCOMB.pap:\*  
14: /cg2\_6/ptodata/2/pubpaa/US10B\_PUBCOMB.pap:\*  
15: /cg2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pap:\*  
16: /cg2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pap:\*  
17: /cg2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pap:\*  
18: /cg2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pap:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

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Result No. Score Match Length DB ID Description

1	392	94.0	552	14	US-10-106-698-4628	Sequence 4628, Ap
2	392	94.0	869	14	US-10-106-698-6388	Sequence 6388, Ap
3	392	94.0	914	9	US-09-823-356-8	Sequence 8, Appli
4	392	94.0	914	9	US-09-922-217-1066	Sequence 1066, Ap
5	392	94.0	914	9	US-09-833-263-1066	Sequence 1066, Ap
6	392	94.0	914	9	US-09-981-353-192	Sequence 192, App
7	392	94.0	914	11	US-09-833-245-2054	Sequence 2054, Ap
8	392	94.0	914	13	US-10-025-380-1066	Sequence 1066, Ap
9	392	94.0	914	14	US-10-270-595-6	Sequence 6, Appli
10	392	94.0	914	14	US-10-235-994-26	Sequence 26, Appli
11	392	94.0	914	14	US-10-060-255-42	Sequence 42, Appli
12	392	94.0	914	15	US-10-369-214-133	Sequence 133, App
13	392	94.0	925	9	US-09-764-868-635	Sequence 635, App
14	392	94.0	925	14	US-10-106-698-6248	Sequence 6248, Ap
15	389	93.3	914	14	US-10-055-412B-28	Sequence 28, Appli
16	339	81.3	913	14	US-10-270-595-2	Sequence 2, Appli
17	339	81.3	913	15	US-10-369-214-132	Sequence 132, App
18	291	69.8	903	14	US-10-055-412B-46	Sequence 46, Appli
19	277	66.4	917	9	US-09-981-353-54	Sequence 54, Appli
20	277	66.4	917	13	US-10-025-167-41	Sequence 41, Appli
21	277	66.4	917	14	US-10-235-994-16	Sequence 16, Appli
22	277	66.4	917	14	US-10-345-680-32	Sequence 32, Appli
23	277	66.4	917	15	US-10-369-214-134	Sequence 134, App
24	277	66.4	917	15	US-10-087-080-34	Sequence 34, Appli
25	277	66.4	919	9	US-09-989-722-379	Sequence 379, App
26	277	66.4	919	9	US-09-989-723-379	Sequence 379, App
27	277	66.4	919	9	US-09-989-727-379	Sequence 379, App
28	277	66.4	919	9	US-09-989-727-379	Sequence 379, App
29	277	66.4	919	9	US-09-989-731-379	Sequence 379, App
30	277	66.4	919	9	US-09-989-732-379	Sequence 379, App
31	277	66.4	919	9	US-09-991-073-379	Sequence 379, App
32	277	66.4	919	9	US-09-990-442-379	Sequence 379, App
33	277	66.4	919	9	US-09-991-163-379	Sequence 379, App
34	277	66.4	919	9	US-09-993-604-379	Sequence 379, App
35	277	66.4	919	9	US-09-990-456-379	Sequence 379, App
36	277	66.4	919	9	US-09-989-721-379	Sequence 379, App
37	277	66.4	919	9	US-09-992-598-379	Sequence 379, App
38	277	66.4	919	9	US-09-989-293A-379	Sequence 379, App
39	277	66.4	919	9	US-09-989-735-379	Sequence 379, App
40	277	66.4	919	9	US-09-990-444-379	Sequence 379, App
41	277	66.4	919	9	US-09-991-181-379	Sequence 379, App
42	277	66.4	919	9	US-09-989-730-379	Sequence 379, App
43	277	66.4	919	9	US-09-990-436-379	Sequence 379, App
44	277	66.4	919	9	US-09-993-687-379	Sequence 379, App
45	277	66.4	919	10	US-09-989-734-379	Sequence 379, App

ALIGNMENTS

RESULT 1  
US-10-106-698-4628  
; Sequence 4628, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 4628  
; LENGTH: 552  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-106-698-4628











; PRIOR PILING DATE: 1997-11-17  
 ; NUMBER OF SEQ ID NOS: 47  
 ; SEQ ID NO 28  
 ; LENGTH: 914  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-10-055-412B-28

Alignment Scores:  
 Pred. No.: 7,81e-41 Length: 914  
 Score: 389.00 Matches: 77  
 Percent Similarity: 100.00% Conservative: 1  
 Best local Similarity: 98.72% Mismatches: 0  
 Query Match: 93.29% Indels: 0  
 DB: 14 Gaps: 0

US-09-049-696-12 (1-235) x US-10-055-412B-28 (1-914)

QY 1 GACACGAGCAATTCGCCAGCCCTCTGGTAGTTTATGCAAAATTCGCCAAGAGCCTCC 60  
 Db |||||  
 600 AspThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSer 619  
 QY 61 CCAATTCTCAGGCCAGTGTCTACAGCCCTGATTGATCAGTGAATGGAACACAGTTACC 120  
 Db |||||  
 620 ProIleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThr 639  
 QY 121 TTGGAACTACTGGATAATGGAGCAGGTGCTGTACTGTACTGTACTGTACTGTACTCA 180  
 Db |||||  
 640 LeuGlnLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSer 659  
 QY 181 AGGTATTTACAACTTATCAGCAGATGGTAGATCAGTGAATGGAACACAGTTACC 234  
 Db |||||  
 660 ArgTyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAla 677

Search completed: April 21, 2004, 16:39:17  
 Job time : 37.8331 secs

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1	392	94.0	914	4	US-09-623-624-6
2	389	93.3	914	4	US-09-193-562D-28
3	339	81.3	913	4	US-09-623-624-2
4	291	69.8	903	4	US-09-193-562D-46
5	277	66.4	917	4	US-09-049-698-41
6	252	60.4	903	4	US-09-623-624-18
7	250	60.0	902	4	US-09-193-562D-34
8	247	59.2	1000	4	US-09-193-562D-30
9	243	58.3	795	4	US-09-193-562D-11
10	243	58.3	821	4	US-09-193-562D-12
11	243	58.3	905	4	US-09-193-562D-2
12	239	57.3	791	4	US-09-643-597-170





;; PRIOR APPLICATION NUMBER: PCT/US99/04703  
;; PRIOR FILING DATE: 1999-03-03  
;; PRIOR APPLICATION NUMBER: US 08/697,360  
;; PRIOR FILING DATE: 1996-08-23  
;; PRIOR APPLICATION NUMBER: US 08/697,419  
;; PRIOR FILING DATE: 1996-08-23  
;; PRIOR APPLICATION NUMBER: US 08/697,440  
;; PRIOR FILING DATE: 1996-08-23  
;; PRIOR APPLICATION NUMBER: US 08/697,471  
;; PRIOR FILING DATE: 1996-08-23  
;; PRIOR APPLICATION NUMBER: US 08/697,471  
;; PRIOR FILING DATE: 1996-08-23  
;; PRIOR APPLICATION NUMBER: US 08/697,472  
;; PRIOR FILING DATE: 1996-08-23  
;; PRIOR APPLICATION NUMBER: US 08/697,473  
;; PRIOR FILING DATE: 1996-08-23  
;; PRIOR APPLICATION NUMBER: US 08/702,105  
;; PRIOR FILING DATE: 1996-08-23  
;; PRIOR APPLICATION NUMBER: US 08/702,110  
;; PRIOR FILING DATE: 1996-08-23  
;; PRIOR APPLICATION NUMBER: US 08/702,168  
;; PRIOR FILING DATE: 1996-08-23  
;; PRIOR APPLICATION NUMBER: US 08/980,872  
;; PRIOR FILING DATE: 1997-12-01  
;; NUMBER OF SEQ ID NOS: 18  
;; SOFTWARE: PatentIn Ver. 2.0  
;; SEQ ID NO 18  
;; LENGTH: 903  
;; TYPE: PRT  
;; ORGANISM: Bos taurus  
US-09-623-624-18

Alignment Scores:  
Pred. No.: 1,48e-26 Length: 903  
Score: 252.00 Matches: 47  
Percent Similarity: 78.21% Conservative: 14  
Best Local Similarity: 60.26% Mismatches: 17  
Query Match: 60.43% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-12 (1-235) x US-09-623-624-18 (1-903)

QY 1 GACACGCAAAATCCCGAGCCCTCTGGTAGTTATGCAAAATATCGCCAGGAGCCTCC 60  
Db 607 AnThrAlaHisTyrProSerProValIleValTyrAlaGlnValSerGlnGlyPheLeu 626  
QY 61 CCAATTCTCAGGCCAGTCTCACAGCCCTGATGAATCAATGCAATGGAACAGATTACC 120  
Db 627 ProValLeuGlyIleAsnValThrAlaIleIleGluThrGluAspGlyHisGlnValThr 646  
QY 121 TTGGAACACTGATTAATGAGCAGGTGCTGATGCTACTAAGATGACGGTGTCTACTCA 180  
Db 647 LeuGluLeuTyrAspAsnGlyAlaGlyAlaAspThrValIleAsnAspGlyIleTyrSer 666  
QY 181 AGTATTTTCACAACTTATCACAGCAATGCTAGATACAGTGAATGTAAGTGGGGCT 234  
Db 667 ArgTyrPheThrAspTyrArgGlyAsnGlyArgTyrSerLeuIleValHisAla 684

## RESULT 7

US-09-193-562D-34  
; Sequence 34, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedict U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 34

US-09-049-696-12 (1-235) x US-09-193-562D-30 (1-1000)

QY 1 GACACGCAAAATCCCGAGCCCTCTGGTAGTTATGCAAAATATCGCCAGGAGCCTCC 60  
Db 626 AnThrAlaHisTyrProSerProValIleValTyrAlaCysValSerGlnGlyPheLeu 645  
QY 61 CCAATTCTCAGGCCAGTCTCACAGCCCTGATGAATCAATGCAATGGAACAGATTACC 120  
Db 646 ProValLeuGlyIleAsnValThrAlaIleIleGluAsnGluGluGlyHisGlnValThr 665  
QY 121 TTGGAACACTGATTAATGAGCAGGTGCTGATGCTACTAAGATGACGGTGTCTACTCA 180  
Db 666 LeuGluLeuCysAspAsnGlyAlaGlyAlaAspSerValIleAsnAspGlyIleTyrSer 685

;; LENGTH: 902  
;; TYPE: PRT  
;; ORGANISM: Mus musculus  
US-09-193-562D-34

Alignment Scores:  
Pred. No.: 2,82e-26 Length: 902  
Score: 250.00 Matches: 47  
Percent Similarity: 80.26% Conservative: 14  
Best Local Similarity: 61.84% Mismatches: 15  
Query Match: 59.95% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-12 (1-235) x US-09-193-562D-34 (1-902)

QY 4 ACCAGCAAAATCCCGAGCCCTCTGGTAGTTATGCAAAATATCGCCAGGAGCCTCCCA 63  
Db 606 ThrAlaGlnTyrProSerArgMetIleValTyrAlaArgValSerGlnGlyPheLeuPro 625  
QY 64 ATTCTCAGGCCAGTCTCACAGCCCTGATGAATCAATGCAATGGAACAGATTACC 123  
Db 626 ValLeuGlyAlaAsnValThrAlaLeuIleGluAlaGluHisGlyHisGlnValThrLeu 645  
QY 124 GAACTACTGGATAATGAGCAGGTGCTGATGCTACTAAGATGACGGTGTCTACTCAAG 183  
Db 646 GluLeuTyrAspAsnGlyAlaGlyAlaAspIleValIleValIleValIleTyrThrArg 665  
QY 184 TATTTTCACAACTTATGACACGAATGCTAGATACAGTGAATGTAAGTGGGG 231  
Db 666 TyrPheThrAspTyrHisGlyAsnGlyArgTyrSerLeuLeuValArg 681

## RESULT 8

US-09-193-562D-30  
; Sequence 30, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedict U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 30  
; LENGTH: 1000  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-193-562D-30

Alignment Scores:  
Pred. No.: 7,73e-26 Length: 1000  
Score: 247.00 Matches: 46  
Percent Similarity: 78.95% Conservative: 14  
Best Local Similarity: 60.53% Mismatches: 16  
Query Match: 59.23% Indels: 0  
DB: 4 Gaps: 0

QY 181 AGTATTTCACAACTTATGACACGAATGTTAGATACAGTGTAAAGTG 228  
Db 686 ArgTyrPheThrAspTyrHisGlyAsnGlyArgTyrSerLeuLysVal 701

## RESULT 9

US-09-193-562D-11  
; Sequence 11, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 11  
; LENGTH: 795  
; TYPE: PRT  
; ORGANISM: Unknown  
; FEATURE:  
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells  
US-09-193-562D-11

Alignment Scores:  
Pred. No.: 2,6e-25 Length: 795  
Score: 243.00 Matches: 46  
Percent Similarity: 75.32% Conservative: 12  
Best Local Similarity: 59.74% Mismatches: 19  
Query Match: 58.27% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-12 (1-235) x US-09-193-562D-11 (1-795)

QY 4 ACAGCAAAATTCCTCCAGCCCTCTGGTAGTTTATGCAAAATATTCGCCAAGGAGCCTCCCA 63  
Db 609 ThrAlaHisTyrProSerProMetIleValTyrAlaGlnValSerGlnGlyPheLeuPro 628  
QY 64 ATTCTCAGGCCAGTGTCTACAGCCCTGATTGAATCAGTGAATGGAAGAAACAGTTACTCTG 123  
Db 629 ValLeuGlyIleSerValIleAlaIleIleGluThrGluAspGlyHisGlnValThrLeu 648  
QY 124 GAACTACTGGATAATGACGAGGTGCTGCTACTAAGGATGACGGTGTCTACTCAAGG 183  
Db 649 GluLeuTrpAspAsnGlyAlaGlyArgAspThrValIleAsnAspGlyIleTyrSerArg 668  
QY 184 TATTTTCAACTTATGACACGAATGTTAGATACAGTGTAAAGTGCGGGCT 234  
Db 669 TyrPheThrAspTyrTyrGlyAsnGlyArgTyrSerLeuLysValHisAla 685

## RESULT 10

US-09-193-562D-12  
; Sequence 12, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 12  
; LENGTH: 821  
; TYPE: PRT  
; ORGANISM: Unknown  
; FEATURE:  
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells  
US-09-193-562D-12

## Alignment Scores:

Pred. No.: 2,63e-25 Length: 821  
Score: 243.00 Matches: 46  
Percent Similarity: 75.32% Conservative: 12  
Best Local Similarity: 59.74% Mismatches: 19  
Query Match: 58.27% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-12 (1-235) x US-09-193-562D-12 (1-821)

QY 4 ACAGCAAAATTCCTCCAGCCCTCTGGTAGTTTATGCAAAATATTCGCCAAGGAGCCTCCCA 63  
Db 609 ThrAlaHisTyrProSerProMetIleValTyrAlaGlnValSerGlnGlyPheLeuPro 628  
QY 64 ATTCTCAGGCCAGTGTCTACAGCCCTGATTGAATCAGTGAATGGAAGAAACAGTTACTCTG 123  
Db 629 ValLeuGlyIleSerValIleAlaIleIleGluThrGluAspGlyHisGlnValThrLeu 648  
QY 124 GAACTACTGGATAATGACGAGGTGCTGCTACTAAGGATGACGGTGTCTACTCAAGG 183  
Db 649 GluLeuTrpAspAsnGlyAlaGlyArgAspThrValIleAsnAspGlyIleTyrSerArg 668  
QY 184 TATTTTCAACTTATGACACGAATGTTAGATACAGTGTAAAGTGCGGGCT 234  
Db 669 TyrPheThrAspTyrTyrGlyAsnGlyArgTyrSerLeuLysValHisAla 685

## RESULT 11

US-09-193-562D-2  
; Sequence 2, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 2  
; LENGTH: 905  
; TYPE: PRT  
; ORGANISM: Unknown  
; FEATURE:  
; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells  
US-09-193-562D-2

## Alignment Scores:

Pred. No.: 2,72e-25 Length: 905  
Score: 243.00 Matches: 46  
Percent Similarity: 75.32% Conservative: 12  
Best Local Similarity: 59.74% Mismatches: 19  
Query Match: 58.27% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-12 (1-235) x US-09-193-562D-2 (1-905)

QY 4 ACAGCAAAATTCCTCCAGCCCTCTGGTAGTTTATGCAAAATATTCGCCAAGGAGCCTCCCA 63  
Db 609 ThrAlaHisTyrProSerProMetIleValTyrAlaGlnValSerGlnGlyPheLeuPro 628  
QY 64 ATTCTCAGGCCAGTGTCTACAGCCCTGATTGAATCAGTGAATGGAAGAAACAGTTACTCTG 123  
Db 629 ValLeuGlyIleSerValIleAlaIleIleGluThrGluAspGlyHisGlnValThrLeu 648  
QY 124 GAACTACTGGATAATGACGAGGTGCTGCTACTAAGGATGACGGTGTCTACTCAAGG 183  
Db 649 GluLeuTrpAspAsnGlyAlaGlyArgAspThrValIleAsnAspGlyIleTyrSerArg 668  
QY 184 TATTTTCAACTTATGACACGAATGTTAGATACAGTGTAAAGTGCGGGCT 234  
Db 669 TyrPheThrAspTyrTyrGlyAsnGlyArgTyrSerLeuLysValHisAla 685



Search completed: April 21, 2004, 16:22:21  
Job time : 15.9919 secs

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: April 24, 2004, 04:05:52 ; Search time 102.215 Seconds  
(without alignments)  
8424.829 Million cell updates/sec

Title: US-09-049-696-11

Perfect score: 191

Sequence: 1 GCCTTTGTAGTGGACAAAAA.....AACAAAGGACACGCAAAATT 191

Scoring table: IDENTITY NUC

Gapop 10.0, Gapext 1.0

Searched: 2907579 seqs, 2254313464 residues

Total number of hits satisfying chosen parameters: 5815158

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA.\*

- 1: /cgn2\_6/ptodata/2/pubpna/US07\_PUBCOMB.seq.\*
- 2: /cgn2\_6/ptodata/2/pubpna/PT\_NEW\_PUB.seq.\*
- 3: /cgn2\_6/ptodata/2/pubpna/US06\_NEW\_PUB.seq.\*
- 4: /cgn2\_6/ptodata/2/pubpna/US06\_PUBCOMB.seq.\*
- 5: /cgn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq.\*
- 6: /cgn2\_6/ptodata/2/pubpna/PTUS\_PUBCOMB.seq.\*
- 7: /cgn2\_6/ptodata/2/pubpna/US08\_NEW\_PUB.seq.\*
- 8: /cgn2\_6/ptodata/2/pubpna/US08\_PUBCOMB.seq.\*
- 9: /cgn2\_6/ptodata/2/pubpna/US09\_PUBCOMB.seq.\*
- 10: /cgn2\_6/ptodata/2/pubpna/US09\_PUBCOMB.seq.\*
- 11: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq.\*
- 12: /cgn2\_6/ptodata/2/pubpna/US09\_PUBCOMB.seq.\*
- 13: /cgn2\_6/ptodata/2/pubpna/US10A\_PUBCOMB.seq.\*
- 14: /cgn2\_6/ptodata/2/pubpna/US10A\_PUBCOMB.seq.\*
- 15: /cgn2\_6/ptodata/2/pubpna/US10B\_PUBCOMB.seq.\*
- 16: /cgn2\_6/ptodata/2/pubpna/US10C\_PUBCOMB.seq.\*
- 17: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq.\*
- 18: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq.\*
- 19: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	191	100.0	507	15	US-10-066-543-1693
2	191	100.0	653	14	Sequence 1693, Ap
3	191	100.0	653	15	Sequence 1851, Ap
4	191	100.0	1512	16	US-10-099-926-1851
5	191	100.0	2745	15	Sequence 850, App
6	191	100.0	2854	15	US-10-270-595-5
7	191	100.0	2867	15	US-10-106-698-1971
8	191	100.0	3007	15	Sequence 191, Ap
9	191	100.0	3109	15	US-10-055-412B-27
10	191	100.0	3111	9	US-10-106-698-2111
11	191	100.0	3111	9	Sequence 25, Appl
12	191	100.0	3111	15	US-09-981-353-191
13	191	100.0	3267	9	Sequence 191, Appl
14	191	100.0	3311	9	US-10-235-994-25
					Sequence 22, Appl
					Sequence 1056, Ap

15	191	100.0	3311	9	US-09-833-263-1056
16	191	100.0	3311	14	Sequence 1056, Ap
17	191	100.0	3311	15	US-10-025-380-1056
18	191	100.0	3311	15	Sequence 11, Appl
19	191	100.0	3311	15	US-10-393-590-12
20	191	100.0	3311	15	Sequence 12, Appl
21	191	100.0	3311	15	US-10-393-590-46
22	191	100.0	3311	15	Sequence 46, Appl
23	191	100.0	3311	15	US-10-393-590-47
24	191	100.0	3311	15	Sequence 47, Appl
25	191	100.0	3311	15	US-10-393-567-11
26	191	100.0	3311	15	Sequence 11, Appl
27	191	100.0	3311	15	US-10-393-567-12
28	191	100.0	3311	15	Sequence 12, Appl
29	191	100.0	3311	15	US-10-393-567-46
30	191	100.0	3311	15	Sequence 46, Appl
31	189.4	99.2	527	15	US-10-394-087-11
32	189.4	99.2	544	15	Sequence 11, Appl
33	177	92.7	455	15	US-10-394-087-12
34	123.8	64.8	2931	15	US-10-394-087-46
35	84	44.0	2754	15	Sequence 46, Appl
36	84	44.0	3043	14	US-10-025-167-16
37	84	44.0	3169	9	US-10-025-167-16
38	84	44.0	3169	15	Sequence 3, Appl
39	84	44.0	3169	15	Sequence 15, Appl
40	84	44.0	3195	10	US-10-235-994-15
41	84	44.0	3195	13	US-10-025-167-18
42	84	44.0	3196	15	US-09-867-034-22
43	84	44.0	3199	13	US-10-276-115-22
44	84	44.0	3204	15	US-10-158-646-39
45	84	44.0	3207	15	Sequence 993, App
					Sequence 31, Appl
					Sequence 660, App

ALIGNMENTS

RESULT 1

US-10-066-543-1693  
; Sequence 1693, Application US/10066543  
; Publication No. US20030087818A1

GENERAL INFORMATION:

- APPLICANT: Jiang, Yuqiu
- APPLICANT: Pyle, Ruth A.
- APPLICANT: Xu, Jiangchun
- APPLICANT: Indrias, Carol Yoseph
- APPLICANT: Lodes, Michael J.
- APPLICANT: Secrist, Heather
- APPLICANT: Carter, Darrick
- APPLICANT: Fanger, Gary R.
- APPLICANT: Smith, Carole L.
- APPLICANT: Durham, Margarita
- APPLICANT: Stolk, John A.
- TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
- TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
- FILE REFERENCE: 210121.563
- CURRENT APPLICATION NUMBER: US/10/066,543
- CURRENT FILING DATE: 2002-01-31
- NUMBER OF SEQ ID NOS: 3417
- SOFTWARE: FastSeq for Windows Version 4.0
- SEQ ID NO 1693
- LENGTH: 507
- TYPE: DNA
- ORGANISM: Homo sapiens

US-10-066-543-1693

Query Match 100.0%; Score 191; DB 15; Length 507;  
Best Local Similarity 100.0%; Pred. No. 1.9e-57;  
Matches 191; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCTTTGTAGTGGACAAAAACCAAAATGGCTTACCTCCAAATCCAGGCAATTCGTTAAG 60

Db 50 GCCTTTGTAGTGGACAAAAACCAAAATGGCTTACCTCCAAATCCAGGCAATTCGTTAAG 109

Qy	61	GTGGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGACTGACG	120
Db	110	GTGGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGACTGACG	169
Qy	121	TCCCGTGCCTCCAAATGCTACCTGCTCCAAATTACAGTGAAGTCTCCAAAAAGCAACAGGAC	180
Db	170	TCCCGTGCCTCCAAATGCTACCTGCTCCAAATTACAGTGAAGTCTCCAAAAAGCAACAGGAC	229
Qy	181	ACCAGCAAAATT	191
Db	230	ACCAGCAAAATT	240

## RESULT 2

```

US-10-033-528-1851/c
; Sequence 1851, Application US/10033528
; Publication No. US20020131971A1
; GENERAL INFORMATION:
; APPLICANT: King, Gordon E.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Xu, Jiangchun
; APPLICANT: Scerist, Heather
; TITLE OF INVENTION: COMPOSITIONS AND METHODS
; OF INVENTION: AND DIAGNOSIS OF COLON
; FILE REFERENCE: 210121.547C1
; CURRENT APPLICATION NUMBER: US/10/033,528
; CURRENT FILING DATE: 2001-12-26
; NUMBER OF SEQ ID NOS: 1896
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1851
; LENGTH: 653
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 7, 41
; OTHER INFORMATION: n = A,T,C or G
US-10-033-528-1851

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Query Match 100.0%; Score 191; DB 14; Length 653;  
Best Local Similarity 100.0%; Pred. No. 2.1e-57;  
Matches 191; Conservative 0; Mismatches 0; Indels 0

Qy		60	G G C T T T G T A G T G G A C A A A A A C C A A A A T G G C C T A C C T C A A A T C C C A G G C A T T G C T A A G
Dd		582	G G C T T T G T A G T G G A C A A A A A C C A A A A T G G C C T A C C T C A A A T C C C A G G C A T T G C T A A G
Qy		120	G T T G G C A C T T T G G A A T A C A G T C T G C A A G C A G C T C A C A A C C T T G A C C C T G A C T G T C A C G
Dd		522	G T T G G C A C T T T G G A A T A C A G T C T G C A A G C A G C T C A C A A C C T T G A C C C T G A C T G T C A C G
Qy		180	T C C C G T G C G T C C A A T G C T A C C C T G C C T C C A A T T A C A G T A C T T C C A A A A C G A A C A A G G A C
Dd		462	T C C C G T G C G T C C A A T G C T A C C C T G C C T C C A A T T A C A G T A C T T C C A A A A C G A A C A A G G A C
Qy		191	A C C A G C A A A T T
Dd		451	A C C A G C A A A T T

### RESULT 3

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US-101-099-926-1851/c
: Sequence 1851, Application US/10099926
: Publication No. US20030166064A1
: GENERAL INFORMATION:
: APPLICANT: King, Gordon E.
: APPLICANT: Weagher, Madeleine Joy
: APPLICANT: Xu, Jiangchun
: APPLICANT: Secrist, Heather
: APPLICANT: Jiang, Yuqiu
: TITLE OF INVENTION: COMPOSITIONS AND
: TITLE OF INVENTION: COMPOSITIONS OF
: FILE REFERENCE: 210121.547C2

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; CURRENT APPLICATION NUMBER: US/10/099,926
;
; CURRENT FILING DATE: 2002-03-17
;
; NUMBER OF SEQ ID NOS: 1992
;
; SOFTWARE: FastSEQ for Windows Version 4.0
;
; SEQ ID NO 1951
;
; LENGTH: 653
;
; TYPE: DNA
;
; ORGANISM: Homo sapiens
;
; FEATURE:
;
; NAME/KEY: misc_feature
;
; LOCATION: 7..41
;
; OTHER INFORMATION: n = A,T,C or G
US-10-099-926-1851

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Query Match	100.0%;	Score 191;	DB 15;	Length 653;
Best Local Similarity	100.0%;	Pred. No. 2.1e-57;		
Matches 191: Conservative	0:	Mismatches 0:	Indels 0:	

Qy	1	GGCTTTGTAGTGGACAAAAACACAAATATGCGCTACCTCCAAATCCAGGCAATTCGCTAAG	60
Db	641	GGCTTTGTAGTGGACAAAAACACAAATATGCGCTACCTCCAAATCCAGGCAATTCGCTAAG	582
Qy	61	GTGTGGCACTTGGAAATACAGTCTGCGACGACGCTCACAAACCTTGACCCCTGACTGTGTCAAG	120
Db	581	GTGTGGCACTTGGAAATACAGTCTGCGACGACGCTCACAAACCTTGACCCCTGACTGTGTCAAG	522
Qy	121	TCCCGTGCCTCCAAATGCTACCTGCTCCAAATTACAGTGACTTCCAAAACGAAACAAGGAC	180
Db	521	TCCCGTGCCTCCAAATGCTACCTGCTCCAAATTACAGTGACTTCCAAAACGAAACAAGGAC	462
Qy	181	ACAGCAAAATT	191
Db	461	ACAGCAAAATT	451

## RESULT 4

```

US-10-305-720-850
; Sequence 850, Application US/10305720
; Publication No. US20040010136A1
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J.
; TITLE OF INVENTION: Composition for the Detection of sig
; FILE REFERENCE: PA-0002-1 CON
; CURRENT APPLICATION NUMBER: US/10/305,720
; CURRENT FILING DATE: 2002-11-26
; PRIOR APPLICATION NUMBER: 09/016,434
; PRIOR FILING DATE: 1998-01-30
; NUMBER OF SEQ ID NOS: 1490
; SOFTWARE: PERL Program
; SEQ ID NO 850
; LENGTH: 1512
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20040010136A1 608819
US-10-305-720-850

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Query Match 100.0%; Score 191; DB 16; Length 1512;  
Best Local Similarity 100.0%; Pred. No. 2.8e-57;  
Matches 191; Conservative 0; Mismatches 0; Indels 0;

Qy	1	GGCTTTGTAGTGGACAAAAACACAAAATGGCTTACCTCCAAATCCCAGGCAATGCTTAAG	60
Db	345	GGCTTTGTAGTGGACAAAAACACAAAATGGCTTACCTCCAAATCCCAGGCAATGCTTAAG	404
Qy	61	GTGGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAAACCTTGAACCTGACTGTGCACG	120
Db	405	GTGGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAAACCTTGAACCTGACTGTGCACG	464
Qy	121	TCCCGTGCGTCCAAATGCTTACCTTGCTCCATTTACAGTGACTTCCAAAAGAACACAGGAC	180
Db	465	TCCCGTGCGTCCAAATGCTTACCTTGCTCCATTTACAGTGACTTCCAAAAGAACACAGGAC	524

QY 181 ACCAGCAAAATT 191  
| | | | |  
Db 525 ACCAGCAAAATT 535

## RESULT 5

US-10-270-595-5  
; Sequence 5, Application US/10270595  
; Publication No. US20030078409A1  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; CURRENT FILING DATE: 2002-10-16  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 2745  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(2742)  
US-10-270-595-5

Query Match 100.0%; Score 191; DB 15; Length 2745;  
Best Local Similarity 100.0%; Pred. No. 3.6e-57;  
Matches 191; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GCCTTTGTAGTGACAAAAACACCAAAATGGCCTACCTCCAAATCCAGCATTGCTAAG 60  
Db 1621 GCCTTTGTAGTGACAAAAACACCAAAATGGCCTACCTCCAAATCCAGCATTGCTAAG 1680  
QY 61 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTACG 120  
Db 1681 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTACG 1740  
QY 121 TCCCGTGCCTCAATGCTTCCAAATACAGTACTTCCAAATCCAGCAAGGAC 180  
Db 1741 TCCCGTGCCTCAATGCTTCCAAATACAGTACTTCCAAATCCAGCAAGGAC 1800  
QY 181 ACCAGCAAAATT 191  
| | | | |  
Db 1801 ACCAGCAAAATT 1811

## RESULT 6

US-10-106-698-1971

; Sequence 1971, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 1971  
; LENGTH: 2854  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-106-698-1971

Query Match 100.0%; Score 191; DB 15; Length 2854;  
Best Local Similarity 100.0%; Pred. No. 3.6e-57;  
Matches 191; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GCCTTTGTAGTGACAAAAACACCAAAATGGCCTACCTCCAAATCCAGCATTGCTAAG 60  
Db 1655 GCCTTTGTAGTGACAAAAACACCAAAATGGCCTACCTCCAAATCCAGCATTGCTAAG 1714  
QY 61 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTACG 120  
Db 1715 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTACG 1774  
QY 121 TCCCGTGCCTCAATGCTTCCAAATACAGTACTTCCAAATCCAGCAAGGAC 180  
Db 1775 TCCCGTGCCTCAATGCTTCCAAATACAGTACTTCCAAATCCAGCAAGGAC 1834  
QY 181 ACCAGCAAAATT 191  
| | | | |  
Db 1835 ACCAGCAAAATT 1845

## RESULT 7

US-10-106-698-351  
; Sequence 351, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 351  
; LENGTH: 2867  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-106-698-351

Query Match 100.0%; Score 191; DB 15; Length 2867;  
Best Local Similarity 100.0%; Pred. No. 3.6e-57;  
Matches 191; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCTTTGTAGTGACAAAAACACCAAAATGGCCTACCTCCAAATCCAGCATTGCTAAG 60  
| | | | |

Db 1659 GGCTTTGTAGTGGACAAAAACACCAAAATGGCTACCTCCAAATCCAGGCATTGCTAAG 1718  
QY 61 GTTGGCACTTGAATAACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTCAAG 120  
Db 1719 GTTGGCACTTGAATAACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTCAAG 1778  
QY 121 TCCCGTGGCTTCCAATGCTACCTTGCCTCCCAATTACAGTACTTCCAAAACGAAACAGGAC 180  
Db 1779 TCCCGTGGCTTCCAATGCTACCTTGCCTCCCAATTACAGTACTTCCAAAACGAAACAGGAC 1838  
QY 181 ACCAGCAAAATT 191  
Db 1839 ACCAGCAAAATT 1849

## RESULT 8

US-10-055-412B-27  
; Sequence 27, Application US/10055412B  
; Publication No. US20030059861A1  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 27  
; LENGTH: 3007  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-055-412B-27

Query Match 100.0%; Score 191; DB 15; Length 3007;  
Best Local Similarity 100.0%; Pred. No. 3.7e-57;  
Matches 191; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GGCTTTGTAGTGGACAAAAACACCAAAATGGCTACCTCCAAATCCAGGCATTGCTAAG 60  
Db 1667 GGCTTTGTAGTGGACAAAAACACCAAAATGGCTACCTCCAAATCCAGGCATTGCTAAG 1726  
QY 61 GTTGGCACTTGAATAACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTCAAG 120  
Db 1727 GTTGGCACTTGAATAACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTCAAG 1786  
QY 121 TCCCGTGGCTTCCAATGCTACCTTGCCTCCCAATTACAGTACTTCCAAAACGAAACAGGAC 180  
Db 1787 TCCCGTGGCTTCCAATGCTACCTTGCCTCCCAATTACAGTACTTCCAAAACGAAACAGGAC 1846  
QY 181 ACCAGCAAAATT 191  
Db 1847 ACCAGCAAAATT 1857

## RESULT 9

US-10-106-698-2111  
; Sequence 2111, Application US/10106698  
; Publication No. US20030109650A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280

; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 2111  
; LENGTH: 3109  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-106-698-2111

Query Match 100.0%; Score 191; DB 15; Length 3109;  
Best Local Similarity 100.0%; Pred. No. 3.7e-57;  
Matches 191; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GGCTTTGTAGTGGACAAAAACACCAAAATGGCTACCTCCAAATCCAGGCATTGCTAAG 60  
Db 1508 GGCTTTGTAGTGGACAAAAACACCAAAATGGCTACCTCCAAATCCAGGCATTGCTAAG 1567  
QY 61 GTTGGCACTTGAATAACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTCAAG 120  
Db 1568 GTTGGCACTTGAATAACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTCAAG 1627  
QY 121 TCCCGTGGCTTCCAATGCTACCTTGCCTCCCAATTACAGTACTTCCAAAACGAAACAGGAC 180  
Db 1628 TCCCGTGGCTTCCAATGCTACCTTGCCTCCCAATTACAGTACTTCCAAAACGAAACAGGAC 1687  
QY 181 ACCAGCAAAATT 191  
Db 1688 ACCAGCAAAATT 1698

## RESULT 10

US-09-823-356-25  
; Sequence 25, Application US/09823356  
; Patent No. US20010025098A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Kasser, Matthew R.  
; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Puri  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
; FILE REFERENCE: PF-0489-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823,356  
; CURRENT FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/039,307  
; PRIOR FILING DATE: 1998 March 13  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PERL Program  
; SEQ ID NO 25  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; NAME/KEY: misc.feature  
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775  
US-09-823-356-25

Query Match 100.0%; Score 191; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 3.7e-57;  
Matches 191; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GGCTTTGTAGTGGACAAAAACACCAAAATGGCTACCTCCAAATCCAGGCATTGCTAAG 60  
Db 1654 GGCTTTGTAGTGGACAAAAACACCAAAATGGCTACCTCCAAATCCAGGCATTGCTAAG 1713  
QY 61 GTTGGCACTTGAATAACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTCAAG 120  
Db 1714 GTTGGCACTTGAATAACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTCAAG 1773

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QY 121 TCCGTGCGCTCCAATGCTACCTGCTCCCAATTACAGTGAATTCCTCAAAACGAAACAGGAC 180
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|
Db 1774 TCCGTGCGCTCCAATGCTACCTGCTCCCAATTACAGTGAATTCCTCAAAACGAAACAGGAC 1833
|
|
|
QY 181 ACCAGCAAAATT 191
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|
|
Db 1834 ACCAGCAAAATT 1844

RESULT 11
US-09-981-353-191
; Sequence 191, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
; APPLICANT: Lasek, Amy W.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US
; CURRENT APPLICATION NUMBER: US/09/981,353
; CURRENT FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO 191
; LENGTH: 3111
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CB1
US-09-981-353-191

Query Match 100.0%; Score 191; DB 9; Length 3111;
Best Local Similarity 100.0%; Pred. No. 3.7e-57;
Matches 191; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGTTTGTAGTGACAAAACACCAAAATGGCGCTACCTCCAAATCCAGGCATTGCTAAG 60
|
|
|
Db 1654 GCGTTTGTAGTGACAAAACACCAAAATGGCGCTACCTCCAAATCCAGGCATTGCTAAG 1713
|
|
|
QY 61 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTCACG 120
|
|
|
Db 1714 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTCACG 1773
|
|
|
QY 121 TCCGTGCGCTCCAATGCTACCTGCTCCCAATTACAGTGAATTCCTCAAAACGAAACAGGAC 180
|
|
|
Db 1774 TCCGTGCGCTCCAATGCTACCTGCTCCCAATTACAGTGAATTCCTCAAAACGAAACAGGAC 1833

RESULT 12
US-10-235-994-25
; Sequence 25, Application US/10235994
; Publication No. US200301002A1
; GENERAL INFORMATION:
; APPLICANT: Bartha, Gabor
; APPLICANT: Walker, Michael
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS
; FILE REFERENCE: ICYTP012
; CURRENT APPLICATION NUMBER: US/10/235,994
; CURRENT FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: US/10/003,608
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,081
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 311
; TYPE: DNA
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; ORGANISM: Human
US-10-235-994-25

Query Match 100.0%; Score 191; DB 15; Length 3111;
Best Local Similarity 100.0%; Pred. No. 3.7e-57;
Matches 191; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGTTTGTAGTGACAAAACACCAAAATGGCGCTACCTCCAAATCCAGGCATTGCTAAG 60
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Db 1654 GCGTTTGTAGTGACAAAACACCAAAATGGCGCTACCTCCAAATCCAGGCATTGCTAAG 1713
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|
|
QY 61 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTCACG 120
|
|
|
Db 1714 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTCACG 1773
|
|
|
QY 121 TCCGTGCGCTCCAATGCTACCTGCTCCCAATTACAGTGAATTCCTCAAAACGAAACAGGAC 180
|
|
|
Db 1774 TCCGTGCGCTCCAATGCTACCTGCTCCCAATTACAGTGAATTCCTCAAAACGAAACAGGAC 1833

RESULT 13
US-09-764-868-22
; Sequence 22, Application US/09764868
; Patent No. US20020168711A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT232
; CURRENT APPLICATION NUMBER: US/09/764,868
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1510
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 22
; LENGTH: 3267
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-868-22

Query Match 100.0%; Score 191; DB 9; Length 3267;
Best Local Similarity 100.0%; Pred. No. 3.8e-57;
Matches 191; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGTTTGTAGTGACAAAACACCAAAATGGCGCTACCTCCAAATCCAGGCATTGCTAAG 60
|
|
|
Db 1655 GCGTTTGTAGTGACAAAACACCAAAATGGCGCTACCTCCAAATCCAGGCATTGCTAAG 1714
|
|
|
QY 61 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTCACG 120
|
|
|
Db 1715 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTCACG 1774
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|
|
QY 121 TCCGTGCGCTCCAATGCTACCTGCTCCCAATTACAGTGAATTCCTCAAAACGAAACAGGAC 180
|
|
|
Db 1775 TCCGTGCGCTCCAATGCTACCTGCTCCCAATTACAGTGAATTCCTCAAAACGAAACAGGAC 1834

RESULT 14
US-09-922-217-1056
; Sequence 1056, Application US/09922217
; Patent No. US20020076414A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Iodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
```

```

; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; CURRENT FILING DATE: 2001-08-03
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1056
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-922-217-1056

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Query Match 100.0%; Score 191; DB 9; Length 3311;
Best Local Similarity 100.0%; Pred. No. 3.8e-57;
Matches 191; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGTTTGTAGTGACAAAACACCAAAATGGCTACCTCCAAATCCAGGCAATTCGTAAG 60
DB 1972 GCGTTTGTAGTGACAAAACACCAAAATGGCTACCTCCAAATCCAGGCAATTCGTAAG 2031

QY 61 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCCCTGACTGTTCAG 120
DB 2032 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCCCTGACTGTTCAG 2091

QY 121 TCCCGTGCCTCAATGCTACCTCCCAATACAGTACTCCAAACGAAACGAAACGAGGAC 180
DB 2092 TCCCGTGCCTCAATGCTACCTCCCAATACAGTACTCCAAACGAAACGAAACGAGGAC 2151

QY 181 ACCAGCAAAATT 191
DB 2152 ACCAGCAAAATT 2162

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RESULT 15
US-09-833-263-1056
; Sequence 1056, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Stolk, John A.
; APPLICANT: Meagher, Madeleine J.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C12
; CURRENT APPLICATION NUMBER: US/09/833,263
; CURRENT FILING DATE: 2001-04-10
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1056
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-833-263-1056

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Query Match 100.0%; Score 191; DB 9; Length 3311;
Best Local Similarity 100.0%; Pred. No. 3.8e-57;
Matches 191; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGTTTGTAGTGACAAAACACCAAAATGGCTACCTCCAAATCCAGGCAATTCGTAAG 60
DB 1972 GCGTTTGTAGTGACAAAACACCAAAATGGCTACCTCCAAATCCAGGCAATTCGTAAG 2031

QY 61 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCCCTGACTGTTCAG 120

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Search completed: April 24, 2004, 06:38:13  
Job time : 103.215 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 24, 2004, 00:33:00 ; Search time 17.5568 Seconds  
(without alignments)  
6037.311 Million cell updates/sec

Title: US-09-049-696-11

Perfect score: 191

Sequence: 1 GGCTTTGAGTGGCAAAAA.....AACAGGACACGCAAAATT 191

Scoring table: IDENTITY NUC

Gapop 10\_0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:\*

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2: /cgn2\_6/prodata/2/ina/5B COMB.seq.\*  
3: /cgn2\_6/prodata/2/ina/6A COMB.seq.\*  
4: /cgn2\_6/prodata/2/ina/6B COMB.seq.\*  
5: /cgn2\_6/prodata/2/ina/PCUS COMB.seq.\*  
6: /cgn2\_6/prodata/2/ina/backfileseq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	191	100.0	1512	4	US-09-016-434-850
2	191	100.0	2745	4	US-09-023-624-5
3	191	100.0	3007	4	US-09-193-562D-27
4	123.8	64.8	2931	4	US-09-623-624-1
5	84	44.0	3043	4	US-09-049-698-16
6	84	44.0	3181	4	US-09-049-698-18
7	51.2	26.8	201	4	US-09-049-698-6
8	35.8	18.7	3317	4	US-09-193-562D-1
9	33.8	17.7	241	4	US-09-049-698-7
10	33.8	17.7	1081	4	US-09-016-434-928
11	33.8	17.7	1399	4	US-09-049-698-17
12	32.6	17.1	3190	4	US-09-623-624-3
13	31	16.2	2773	4	US-09-643-597-358
14	31	16.2	2784	4	US-09-643-597-168
15	31	16.2	2784	4	US-09-480-884A-168
16	31	16.2	2784	4	US-09-542-615A-168
17	31	16.2	2784	4	US-09-606-421B-168
18	31	16.2	2970	4	US-09-193-562D-31
19	31	16.2	3156	4	US-09-319-172-86
20	31	16.2	3951	4	US-09-643-597-160
21	31	16.2	3951	4	US-09-480-884A-160
22	31	16.2	3951	4	US-09-542-615A-160
23	31	16.2	3951	4	US-09-606-421B-160
24	31	16.2	3951	4	US-09-221-107-160
25	31	16.2	8031	4	US-09-643-597-254
26	31	16.2	8031	4	US-09-480-884A-254
27	31	16.2	8031	4	US-09-542-615A-254

28 31 16.2 8031 4 US-09-606-421B-254 Sequence 254, Appl  
29 30.4 15.9 10380 3 US-09-077-354B-3 Sequence 3, Appl  
30 29.4 15.4 553 4 US-09-621-976-9411 Sequence 9411, Ap  
31 29 15.2 1117 4 US-09-552-225A-11 Sequence 11, Appl  
32 29 15.2 1123 3 US-09-188-930-28 Sequence 28, Appl  
33 29 15.2 1123 3 US-09-188-930-203 Sequence 203, Appl  
34 29 15.2 1123 4 US-09-312-283C-28 Sequence 28, Appl  
35 29 15.2 1123 4 US-09-312-283C-203 Sequence 203, Appl  
36 28.6 15.0 2172 3 US-08-760-615-1 Sequence 1, Appl  
37 28.6 15.0 2298 4 US-09-650-086A-1 Sequence 29, Appl  
38 28.2 14.8 3418 4 US-09-193-562D-29 Sequence 18, Appl  
39 28.2 14.8 3833 1 US-08-917-320-18 Sequence 18, Appl  
40 28.2 14.8 3833 5 PCT-US95-04611A-18 Sequence 1, Appl  
41 28.2 14.8 5931 3 US-08-783-774-1 Sequence 1, Appl  
42 28.2 14.8 5931 4 US-09-556-706B-1 Sequence 3, Appl  
43 28.2 14.8 17056 3 US-09-245-041-3 Sequence 37, Appl  
C 44 28 2183 4 US-09-424-978B-37 Sequence 1, Appl  
C 45 28 14.7 1230025 4 US-09-198-452A-1 Sequence 1, Appl

#### ALIGNMENTS

#### RESULT 1

US-09-016-434-850  
; Sequence 850, Application US/09016434  
; Patent No. 6500938  
; GENERAL INFORMATION:  
; APPLICANT: Janice Au-Young  
; APPLICANT: Jeffrey J. Seilhamer  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION  
; NUMBER OF SEQUENCES: 1490  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/016,434  
; FILING DATE: HEREWITH  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Zeller, Karen J.  
; REGISTRATION NUMBER: 37,071  
; REFERENCE/DOCKET NUMBER: PA-0002 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (650) 855-0555  
; TELEFAX: (650) 845-4166  
; INFORMATION FOR SEQ ID NO: 850:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1512 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: COLNNOT01  
; CLONE: 608819  
; US-09-016-434-850

Query Match 100.0%; Score 191; DB 4; Length 1512;  
Best Local Similarity 100.0%; Pred. No. 2e-60;





; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patent in Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 2931  
; TYPE: DNA  
; ORGANISM: Mus musculus  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (8)..(2746)  
US-09-623-624-1

Query Match 64.8%; Score 123.8; DB 4; Length 2931;  
Best Local Similarity 78.0%; Pred. No. 1.8e-35;  
Matches 149; Conservative 0; Mismatches 42; Indels 0; Gaps 0;  
QY 1 GGCTTTGTAGTGACAAAACACCAAAATGGCTTACTCCAAATCCAGGCTTGTCTAAG 60  
Db 1631 GGTATTACTAGACACACCACTAGGTGGCTTACTCCAAATCCAGGCTTGTCTAAG 1690  
QY 61 GTGGCATTGGAAATACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTCAAG 120  
Db 1691 GTGGCTTTTGGAAATACAGCTTCAAGCGAGCTCAAGCTCTCACTTGTCTCAAC 1750  
QY 121 TCCGTGGCTGCATGCTACCTCCCTCCAAATACAGTACTTCCAAAGCAAGGAC 180  
Db 1751 TCCGTGGCAGCAAGTGTCTACACTGCCTCTTATTACAGTACCCCGGTAGTGAATAAGAC 1810  
QY 181 ACCAGCAAAATT 191  
Db 1811 ACAGGAAATT 1821

RESULT 5  
US-09-049-698-16  
; Sequence 16, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITTS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLASS, MICHAEL R.  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; TITLE OF INVENTION: TRACT  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park  
; STATE: IL

; COUNTRY: USA  
; ZIP: 60064-3500  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/049,698  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA: 08/828,856  
; APPLICATION NUMBER: 31-MAR-1997  
; FILING DATE: 31-MAR-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Becker, Cheryl L.  
; REGISTRATION NUMBER: 35,441  
; REFERENCE/DOCKET NUMBER: 6068.US.P1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 847/935-1729  
; TELEFAX: 847/938-2623  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 16:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 3043 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-09-049-698-16  
Query Match 44.0%; Score 84; DB 4; Length 3043;  
Best Local Similarity 68.6%; Pred. No. 8.6e-21;  
Matches 133; Conservative 0; Mismatches 55; Indels 6; Gaps 1;  
QY 4 TTGTGACTGCACAAAACACCAAAATGGCTTACTCCAAATCCAGGCTTGTCTAAGTT 63  
Db 1640 TTCACAGTGATGCAACTTCCAAATGGCTTACTCAGTATTCAGGAACCTGCAAGGTG 1699  
QY 64 GGCACTTGGAAATACAGTCTGC-----AAGCAAGCTCAAAACCTTGACCTGACTGTC 117  
Db 1700 GGCACTTGGCATACTTCAAGCCAAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCA 1759  
QY 118 AGTCCCGTGGCTTCAATGCTACCTGCTCCAAATACAGTACTTCCAAAGCAAGCAAG 177  
Db 1760 ACTTCTCGAGCAGCAAAATCTTCTGTGCTCCAAATCAGAGTGAATGCTAAATGAATAAG 1819  
QY 178 GACACCAAGCAATT 191  
Db 1820 GACGTAACAGTTT 1833

RESULT 6  
US-09-049-698-18  
; Sequence 18, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITTS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLASS, MICHAEL R.  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; TITLE OF INVENTION: TRACT  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park

```
/ STATE: IL
/ COUNTRY: USA
/ ZIP: 60064-3500
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette
/ COMPUTER: IBM Compatible
/ OPERATING SYSTEM: DOS
/ SOFTWARE: FastSEQ for Windows Version 2.0
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/049,698
/ FILING DATE:
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/828,856
/ FILING DATE: 31-MAR-1997
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Becker, Cheryl L.
/ REGISTRATION NUMBER: 35,441
/ REFERENCE/DOCKET NUMBER: 6068.US.P1
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 847/935-1729
/ TELEFAX: 847/938-2623
/ TELEX:
/ INFORMATION FOR SEQ ID NO: 18:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 3181 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ US-09-049-698-18

Query Match 44.0%; Score 84; DB 4; Length 3181;
Best Local Similarity 68.6%; Pred. No. 8.8e-21;
Matches 133; Conservative 0; Mismatches 55; Indels 6; Gaps 1;

QY 4 TTTGTAGTGGCAAAACCAAAATGGCTTACCTCCAAATCCAGGCAATTCGTAAGGTT 63
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1651 TTCACAGTGGATGCAACTTCCAAATGGCTATCTCAGTATTCAGGAATCCAAAGGTG 1710
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 64 GGCACCTTGAATACAGTCTGC-----AAGCAGCTCAAAACCTTGACCCCTGACTGTC 117
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1711 GGCACCTTGGCATACTTCAAGCCAAAGCGAACCCAGAAACATTAATCTATTACGTA 1770
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 118 AGTCCCGGCGTCCAACTCCTACCTCCCTCCCAATTTACAGTCACTTCCAAACGACAG 177
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1771 ACTTCGAGCAGCAAAATCTTCTGTGCTCCCAATCACAGTGAATGCTAAATGAATAG 1830
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 178 GACACCGCAAAATT 191
   ||||| ||||| |||||
Db 1831 GACGTAACAGTTT 1844
   ||||| ||||| |||||

RESULT 7
US-09-049-698-6
; Sequence 6, Application US/09049698
; Patent No. 6368792
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA A.
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: HAYDEN, MARK
; APPLICANT: KLASS, MICHAEL R.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
```

```
/ CITY: Abbott Park
/ STATE: IL
/ COUNTRY: USA
/ ZIP: 60064-3500
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette
/ COMPUTER: IBM Compatible
/ OPERATING SYSTEM: DOS
/ SOFTWARE: FastSEQ for Windows Version 2.0
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/049,698
/ FILING DATE:
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/828,856
/ FILING DATE: 31-MAR-1997
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Becker, Cheryl L.
/ REGISTRATION NUMBER: 35,441
/ REFERENCE/DOCKET NUMBER: 6068.US.P1
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 847/935-1729
/ TELEFAX: 847/938-2623
/ TELEX:
/ INFORMATION FOR SEQ ID NO: 6:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 201 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ FEATURE:
/ NAME/KEY: base_polymorphism
/ LOCATION: 24
/ OTHER INFORMATION: /note= " N' represents an A or G or
/ OTHER INFORMATION: T or C polymorphism at this position"
/ US-09-049-698-6

Query Match 26.8%; Score 51.2; DB 4; Length 201;
Best Local Similarity 73.9%; Pred. No. 2.6e-09;
Matches 65; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

QY 4 TTTGTAGTGGCAAAACCAAAATGGCTTACCTCCAAATCCAGGCAATTCGTAAGGTT 63
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 104 TTCACAGTGGATGCAACTTCCAAATGGCTATCTCAGTATTCAGGAATCCAAAGGTG 163
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 64 GGCACCTTGAATACAGTCTGCAAGCAA 91
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 164 GGCACCTTGGCATAACAATCTTCAAGCCA 191
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 8
US-09-193-562D-1
; Sequence 1, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 1
; LENGTH: 3317
; TYPE: DNA
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: sequence encoding Lu-ECAM-1 and Lu-ECAM-1 associated
; OTHER INFORMATION: protein from bovine endothelial cells
/ US-09-193-562D-1
```

Query Match 18.7%; Score 35.8; DB 4; Length 3317;  
Best Local Similarity 57.4%; Pred. No. 0.0054;  
Matches 89; Conservative 0; Mismatches 57; Indels 9; Gaps 1;

QY 37 CTCCTCAATCCAGGCTTGTAGGTTGGCACTTGGAAATACAGTCT-----GCAA 87  
DB 1734 CTGCAATACCTGTTATTCAGAGCAGGACTTGGACTTACAGCCTTCTTAATATCAT 1793

QY 88 GCAAGCTCACAACCTTGACCCCTGACTGTCCAGTCCCGTCCGTCCTCAATGCTACCTGCTT 147  
DB 1794 GCAGCTCTCAATGCTTAACAGTGACAGTGACCTCGAGCAGAGAGTCTCTACTATACC 1853

QY 148 CCAATACAGTACTTCCAAACGACACAGGAC 182  
DB 1854 CCAGTAATTGCAACAGCTCACATGAGTCAACATAC 1888

RESULT 9  
US-09-049-698-7  
; Sequence 7, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITTS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLASS, MICHAEL R.  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; TITLE OF INVENTION: TRACT  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park  
; STATE: IL  
; COUNTRY: USA  
; ZIP: 60064-3500  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/049,698  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/828,856  
; FILING DATE: 31-MAR-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Becker, Cheryl L.  
; REGISTRATION NUMBER: 35,441  
; REFERENCE/DOCKET NUMBER: 6068.US.P1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 847/935-1729  
; TELEFAX: 847/938-2623  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 7:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 241 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-09-049-698-7

Query Match 17.7%; Score 33.8; DB 4; Length 241;  
Best Local Similarity 72.1%; Pred. No. 0.0076;  
Matches 44; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 131 CCAATGCTACCTGCTCCCAATTACAGTCACTTCCAAAACGAAACAGGACACCAGCAAT 190  
DB 2 CAAATCTTCTGTGCTCCCAATCACAGTGAATGCTAAATGAATAAGGACGTAACAGTT 61

QY 191 T 191  
DB 62 T 62

RESULT 10  
US-09-016-434-928  
; Sequence 928, Application US/09016434  
; Patent No. 6500938  
; GENERAL INFORMATION:  
; APPLICANT: Janice Au-Young  
; APPLICANT: Jeffrey J. Seilhamer  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION  
; NUMBER OF SEQUENCES: 1490  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/016,434  
; FILING DATE: HEREWITH  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Zeller, Karen J.  
; REGISTRATION NUMBER: 37,071  
; REFERENCE/DOCKET NUMBER: PA-0002 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (650) 855-0555  
; TELEFAX: (650) 845-4166  
; INFORMATION FOR SEQ ID NO: 928:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1081 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: COLNNOT05  
; CLONE: 774419  
US-09-016-434-928

Query Match 17.7%; Score 33.8; DB 4; Length 1081;  
Best Local Similarity 72.1%; Pred. No. 0.017;  
Matches 44; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 131 CCAATGCTACCTGCTCCCAATTACAGTCACTTCCAAAACGAAACAGGACACCAGCAAT 190  
DB 2 CAAATCTTCTGTGCTCCCAATCACAGTGAATGCTAAATGAATAAGGACGTAACAGTT 61

QY 191 T 191  
DB 62 T 62

RESULT 11  
US-09-049-698-17



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; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 358
; LENGTH: 2773
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-643-597-358

Query Match      16.2%; Score 31; DB 4; Length 2773;
Best Local Similarity 57.9%; Pred. No. 0.29;
Matches 55; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

QY 97 CAACCTTGACCTGACTGTGACGTCCCGTGGTCCAAATGCTACCTGCTCCCAATTACA 156
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1693 CAAGCCCTGAAAGTGACGTGACCTCTCGCGCTCCAAATGCTACCTGCTCCCAATTACA 1752
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 157 GTGACTTCCAAACGAAACGAGGACACAGCAAAATT 191
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1753 GTGGAAGCCTTTGTGGAAGAGACAGCCTCCATT 1787
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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```
RESULT 14
US-09-643-597-168
; Sequence 168, Application US/09643597
; Patent No. 6426072
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy R.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Henderson, Robert A.
; APPLICANT: McNeill, Patricia D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455C11
; CURRENT APPLICATION NUMBER: US/09/643,597
; CURRENT FILING DATE: 2000-08-21
; NUMBER OF SEQ ID NOS: 369
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 168
; LENGTH: 2784
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-643-597-168
```

```
Query Match      16.2%; Score 31; DB 4; Length 2784;
Best Local Similarity 57.9%; Pred. No. 0.29;
Matches 55; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

QY 97 CAACCTTGACCTGACTGTGACGTCCCGTGGTCCAAATGCTACCTGCTCCCAATTACA 156
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1835 CAAGCCCTGAAAGTGACGTGACCTCTCGCGCTCCAAATGCTACCTGCTCCCAATTACA 1894
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 157 GTGACTTCCAAACGAAACGAGGACACAGCAAAATT 191
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1895 GTGGAAGCCTTTGTGGAAGAGACAGCCTCCATT 1929
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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```
RESULT 15
US-09-480-884A-168
; Sequence 168, Application US/09480884A
; Patent No. 6482597
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Hosken, Nancy A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
```

```
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455C6
; CURRENT APPLICATION NUMBER: US/09/480,884A
; CURRENT FILING DATE: 2001-08-27
; NUMBER OF SEQ ID NOS: 330
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 168
; LENGTH: 2784
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-480-884A-168

Query Match      16.2%; Score 31; DB 4; Length 2784;
Best Local Similarity 57.9%; Pred. No. 0.29;
Matches 55; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

QY 97 CAACCTTGACCTGACTGTGACGTCCCGTGGTCCAAATGCTACCTGCTCCCAATTACA 156
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1835 CAAGCCCTGAAAGTGACGTGACCTCTCGCGCTCCAAATGCTACCTGCTCCCAATTACA 1894
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 157 GTGACTTCCAAACGAAACGAGGACACAGCAAAATT 191
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1895 GTGGAAGCCTTTGTGGAAGAGACAGCCTCCATT 1929
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

Search completed: April 24, 2004, 05:01:07
Job time : 18.5568 secs
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OM nucleic - protein search, using frame\_plus\_n2p model

Run on: April 21, 2004, 16:13:49 ; Search time 27.4984 Seconds  
(without alignments)  
3840.718 Million cell updates/sec

Title: US-09-049-696-11

Perfect score: 365

Sequence: 1 GCCTTTGTAGTGACAAAAA.....AACAGGACACGCAAAATT 191

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Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delgap 6.0 , Delext 7.0

Searched: 1133595 seqs, 276475211 residues

Total number of hits satisfying chosen parameters: 2267190

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-O=/cgn2\_1/USPTO\_spool\_p/US09049696/runat\_21042004\_154838\_21265/app\_query.fasta\_1.13694  
-DB=Published Applications\_AA\_QPMF=fastan-SUPFI=n2p.rapb-MINMATCH=0.1  
-LOOPCL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62  
-TRANS=human40.cdi -LIST=45 -DOCLALIGN=200 -THR SCORE=pct -THR MAX=100  
-THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0  
-MAXLEN=200000000 -USFR=US09049696 @CGN 1 1 139 @runat\_21042004\_154838\_21265  
-NCPU=6 -ICPU=3 -NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100  
-LONGLOG -DEV\_TIMEOUT=120 -WARN\_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5  
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

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- 3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep.\*
- 5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pep.\*
- 6: /cgn2\_6/ptodata/2/pubpaa/PCTUS\_PUBCOMB.pep.\*
- 7: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep.\*
- 8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep.\*
- 9: /cgn2\_6/ptodata/2/pubpaa/US09A\_PUBCOMB.pep.\*
- 10: /cgn2\_6/ptodata/2/pubpaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB.pep.\*
- 13: /cgn2\_6/ptodata/2/pubpaa/US10A\_PUBCOMB.pep.\*
- 14: /cgn2\_6/ptodata/2/pubpaa/US10B\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pep.\*
- 17: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description

1	315	86.3	552	14	US-10-106-698-4628	Sequence 4628, Ap
2	315	86.3	869	14	US-10-106-698-6388	Sequence 6388, Ap
3	315	86.3	914	9	US-09-823-356-8	Sequence 8, Appli
4	315	86.3	914	9	US-09-922-217-1066	Sequence 1066, Ap
5	315	86.3	914	9	US-09-833-263-1066	Sequence 1066, Ap
6	315	86.3	914	9	US-09-981-353-192	Sequence 192, App
7	315	86.3	914	11	US-09-833-245-2054	Sequence 2054, Ap
8	315	86.3	914	13	US-10-025-380-1066	Sequence 1066, Ap
9	315	86.3	914	14	US-10-055-412B-28	Sequence 28, Appli
10	315	86.3	914	14	US-10-270-595-6	Sequence 6, Appli
11	315	86.3	914	14	US-10-235-994-26	Sequence 26, Appli
12	315	86.3	914	14	US-10-060-255-42	Sequence 42, Appli
13	315	86.3	914	15	US-10-369-214-133	Sequence 133, App
14	315	86.3	925	9	US-09-764-868-635	Sequence 635, App
15	315	86.3	925	14	US-10-106-698-6248	Sequence 6248, Ap
16	246	67.4	913	14	US-10-270-595-2	Sequence 2, Appli
17	246	67.4	913	15	US-10-369-214-132	Sequence 132, Appl
18	207	56.7	917	9	US-09-981-353-54	Sequence 54, Appli
19	207	56.7	917	13	US-10-025-167-41	Sequence 41, Appli
20	207	56.7	917	14	US-10-235-994-16	Sequence 16, Appli
21	207	56.7	917	14	US-10-345-680-32	Sequence 32, Appli
22	207	56.7	917	15	US-10-369-214-134	Sequence 134, App
23	207	56.7	917	15	US-10-087-080-34	Sequence 34, Appli
24	207	56.7	919	9	US-09-989-722-379	Sequence 379, App
25	207	56.7	919	9	US-09-989-723-379	Sequence 379, App
26	207	56.7	919	9	US-09-989-727-379	Sequence 379, App
27	207	56.7	919	9	US-09-989-727-379	Sequence 379, App
28	207	56.7	919	9	US-09-989-731-379	Sequence 379, App
29	207	56.7	919	9	US-09-989-732-379	Sequence 379, App
30	207	56.7	919	9	US-09-991-073-379	Sequence 379, App
31	207	56.7	919	9	US-09-990-442-379	Sequence 379, App
32	207	56.7	919	9	US-09-991-163-379	Sequence 379, App
33	207	56.7	919	9	US-09-993-604-379	Sequence 379, App
34	207	56.7	919	9	US-09-990-456-379	Sequence 379, App
35	207	56.7	919	9	US-09-989-721-379	Sequence 379, App
36	207	56.7	919	9	US-09-992-598-379	Sequence 379, App
37	207	56.7	919	9	US-09-989-293A-379	Sequence 379, App
38	207	56.7	919	9	US-09-989-735-379	Sequence 379, App
39	207	56.7	919	9	US-09-990-444-379	Sequence 379, App
40	207	56.7	919	9	US-09-991-181-379	Sequence 379, App
41	207	56.7	919	9	US-09-989-730-379	Sequence 379, App
42	207	56.7	919	9	US-09-990-436-379	Sequence 379, App
43	207	56.7	919	9	US-09-993-687-379	Sequence 379, App
44	207	56.7	919	10	US-09-989-734-379	Sequence 379, App
45	207	56.7	919	10	US-09-997-653-379	Sequence 379, App

ALIGNMENTS

RESULT 1

US-10-106-698-4628  
; Sequence 4628, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 4628  
; LENGTH: 552  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-106-698-4628

Alignment Scores:  
Pred. No.: 2,36e-31 Length: 552  
Score: 315.00 Matches: 63  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 86.30% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-11 (1-191) x US-10-106-698-4628 (1-552)

QY 1 GCCTTTGTAGTGACAAAAACCAAAATGGCTACCTCCAAATCCAGGCATTGCTAAG 60  
Db 179 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 198  
QY 61 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTCACG 120  
Db 199 ValGlyThrTriPlySerLeuGlnAlaSerSerGlnThrLeuThrValThr 218  
QY 121 TCCCGTGGCTCCAAATGCTACCTGCTCCCAATTACAGTCACTTCCAAAACGAACAGGAC 180  
Db 219 SerArgAlaSerAsnAlaThrLeuProProlleThrValThrSerLysThrAsnLysAsp 238  
QY 181 ACCAGCAAA 189  
Db 239 ThrSerLys 241

RESULT 2  
US-10-106-698-6388  
; Sequence 6388, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide  
; FILE REFERENCE: PA005PI  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; PRIOR FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 6388  
; LENGTH: 869  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; NAME/KEY: MISC FEATURE  
; LOCATION: (14)\_FEATURE  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids

US-10-106-698-6388

Alignment Scores:  
Pred. No.: 2,55e-31 Length: 869  
Score: 315.00 Matches: 63  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 86.30% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-11 (1-191) x US-10-106-698-6388 (1-869)

QY 1 GCCTTTGTAGTGACAAAAACCAAAATGGCTACCTCCAAATCCAGGCATTGCTAAG 60  
Db 496 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 515  
QY 61 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTCACG 120  
Db 516 ValGlyThrTriPlySerLeuGlnAlaSerSerGlnThrLeuThrValThr 535  
QY 121 TCCCGTGGCTCCAAATGCTACCTGCTCCCAATTACAGTCACTTCCAAAACGAACAGGAC 180

Db 536 SerArgAlaSerAsnAlaThrLeuProProlleThrValThrSerLysThrAsnLysAsp 555  
QY 181 ACCAGCAAA 189  
Db 556 ThrSerLys 558

RESULT 3  
US-09-823-356-8  
; Sequence 8, Application US/09823356  
; Patent No. US20010025098A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Kaser, Matthew R.  
; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
; FILE REFERENCE: PF-0489-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823,356  
; PRIOR FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/039,307  
; PRIOR FILING DATE: 1998 March 13  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PERL Program  
; SEQ ID NO 8  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775

US-09-823-356-8

Alignment Scores:  
Pred. No.: 2,57e-31 Length: 914  
Score: 315.00 Matches: 63  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 86.30% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-11 (1-191) x US-09-823-356-8 (1-914)

QY 1 GCCTTTGTAGTGACAAAAACCAAAATGGCTACCTCCAAATCCAGGCATTGCTAAG 60  
Db 541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560  
QY 61 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTCACG 120  
Db 561 ValGlyThrTriPlySerLeuGlnAlaSerSerGlnThrLeuThrValThr 580  
QY 121 TCCCGTGGCTCCAAATGCTACCTGCTCCCAATTACAGTCACTTCCAAAACGAACAGGAC 180  
Db 581 SerArgAlaSerAsnAlaThrLeuProProlleThrValThrSerLysThrAsnLysAsp 600  
QY 181 ACCAGCAAA 189  
Db 601 ThrSerLys 603

RESULT 4  
US-09-922-217-1066  
; Sequence 1066, Application US/09922217  
; Patent No. US20020076414A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather



```
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; CURRENT FILING DATE: 2001-08-03
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1066
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-922-217-1066

Alignment Scores:
Pred. No.: 2,57e-31 Length: 914
Score: 315.00 Matches: 63
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 86.30%
Indels: 0
Gaps: 0
DB: 0

US-09-049-696-11 (1-191) x US-09-922-217-1066 (1-914)
QY 1 GGCTTTGTAGTGACAAAAACCAAAATGGCTTACCTCCAAATCCAGGCATTGCTAAG 60
Db 541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560
QY 61 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTCACG 120
Db 561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrValThr 580
QY 121 TCCCGTGGCTGCAATGCTCCCTGCTCCCAATACAGTACTTCCAAACGAAACAGGAC 180
Db 581 SerArgAlaSerAsnAlaThrLeuProProlleThrValThrSerLysThrAsnLysAsp 600
QY 181 ACCAGCAAA 189
Db 601 ThrSerLys 603

RESULT 5
US-09-833-263-1066
; Sequence 1066, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Stolk, John A.
; APPLICANT: Meagher, Madeleine J.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; FILE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C12
; CURRENT APPLICATION NUMBER: US/09/833,263
; CURRENT FILING DATE: 2001-04-10
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1066
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-833-263-1066

Alignment Scores:
Pred. No.: 2,57e-31 Length: 914
Score: 315.00 Matches: 63
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Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 86.30% Indels: 0
DB: 9 Gaps: 0

US-09-049-696-11 (1-191) x US-09-833-263-1066 (1-914)
QY 1 GGCTTTGTAGTGACAAAAACCAAAATGGCTTACCTCCAAATCCAGGCATTGCTAAG 60
Db 541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560
QY 61 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTCACG 120
Db 561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrValThr 580
QY 121 TCCCGTGGCTGCAATGCTCCCTGCTCCCAATACAGTACTTCCAAACGAAACAGGAC 180
Db 581 SerArgAlaSerAsnAlaThrLeuProProlleThrValThrSerLysThrAsnLysAsp 600
QY 181 ACCAGCAAA 189
Db 601 ThrSerLys 603

RESULT 6
US-09-981-353-192
; Sequence 192, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
; APPLICANT: Laeek, Amy W.
; APPLICANT: Jones, David A.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US
; CURRENT APPLICATION NUMBER: US/09/981,353
; CURRENT FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO 192
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CD1
US-09-981-353-192

Alignment Scores:
Pred. No.: 2,57e-31 Length: 914
Score: 315.00 Matches: 63
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 86.30% Indels: 0
DB: 9 Gaps: 0

US-09-049-696-11 (1-191) x US-09-981-353-192 (1-914)
QY 1 GGCTTTGTAGTGACAAAAACCAAAATGGCTTACCTCCAAATCCAGGCATTGCTAAG 60
Db 541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560
QY 61 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTCACG 120
Db 561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrValThr 580
QY 121 TCCCGTGGCTGCAATGCTCCCTGCTCCCAATACAGTACTTCCAAACGAAACAGGAC 180
Db 581 SerArgAlaSerAsnAlaThrLeuProProlleThrValThrSerLysThrAsnLysAsp 600
QY 181 ACCAGCAAA 189
Db 601 ThrSerLys 603

RESULT 7
US-09-833-245-2054
```

```
; Sequence 2054, Application US/09833245
; Publication No. US2004010134A1
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF546PCT
; CURRENT APPLICATION NUMBER: US/09/833,245
; CURRENT FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229, 358
; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256, 931
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/199, 384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 2267
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2054
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-833-245-2054

Alignment Scores:
Pred. No.: 2,578-31 Length: 914
Score: 315.00 Matches: 63
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 86.30% Indels: 0
DB: 11 Gaps: 0

US-09-049-696-11 (1-191) x US-09-833-245-2054 (1-914)
QY 1 GGCTTTGTAGTGACAAAACACCAAAATGGCTACTCCAAATCCAGGCATTGCTAAG 60
Db 541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560
QY 61 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTCACG 120
Db 561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrValThr 580
QY 121 TCCCGTGCCTCAATGCTACCTGCTCCAAATACAGTACTTCCAAAACGACCAAGGAC 180
Db 581 SerArgAlaSerAsnAlaThrLeuProProlleThrValThrSerLysThrAsnLysAsp 600
QY 181 ACCAGCAAA 189
Db 601 ThrSerLys 603

RESULT 8
US-10-025-380-1066
; Sequence 1066, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C14
; CURRENT APPLICATION NUMBER: US/10/025,380
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; CURRENT FILING DATE: 2001-12-19
; NUMBER OF SEQ ID NOS: 1129
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1066
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-025-380-1066

Alignment Scores:
Pred. No.: 2,578-31 Length: 914
Score: 315.00 Matches: 63
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 86.30% Indels: 0
DB: 13 Gaps: 0

US-09-049-696-11 (1-191) x US-10-025-380-1066 (1-914)
QY 1 GGCTTTGTAGTGACAAAACACCAAAATGGCTACTCCAAATCCAGGCATTGCTAAG 60
Db 541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560
QY 61 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTCACG 120
Db 561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrValThr 580
QY 121 TCCCGTGCCTCAATGCTACCTGCTCCAAATACAGTACTTCCAAAACGACCAAGGAC 180
Db 581 SerArgAlaSerAsnAlaThrLeuProProlleThrValThrSerLysThrAsnLysAsp 600
QY 181 ACCAGCAAA 189
Db 601 ThrSerLys 603

RESULT 9
US-10-055-412B-28
; Sequence 28, Application US/10055412B
; Publication No. US20030059861A1
; GENERAL INFORMATION:
; APPLICANT: Paull, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0058
; CURRENT APPLICATION NUMBER: US/10/055,412B
; CURRENT FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: US/09/193,562
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 28
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-055-412B-28

Alignment Scores:
Pred. No.: 2,578-31 Length: 914
Score: 315.00 Matches: 63
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 86.30% Indels: 0
DB: 14 Gaps: 0

US-09-049-696-11 (1-191) x US-10-055-412B-28 (1-914)
QY 1 GGCTTTGTAGTGACAAAACACCAAAATGGCTACTCCAAATCCAGGCATTGCTAAG 60
Db 541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560
QY 61 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTCACG 120
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Db 561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr 580  
QY 121 TCCGTCGCTCAATGCTACCTCCCTCCCAATACAGTCTCCCAAAACGAAACAGGAC 180  
Db 581 SerArgAlaSerAsnAlaThrLeuProPoleThrValThrSerLysThrAsnLysAsp 600  
QY 181 ACCAGCAA 189  
Db 601 ThrSerLys 603  
RESULT 10  
US-10-270-595-6  
; Sequence 6, Application US/10270595  
; Publication No. US20030078409A1  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; CURRENT FILING DATE: 2002-10-16  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; Remaining prior application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-270-595-6  
Alignment Scores:  
Pred. No.: 2,57e-31 Length: 914  
Score: 315.00 Matches: 63  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 86.30% Indels: 0  
DB: 14 Gaps: 0  
US-09-049-696-11 (1-191) x US-10-270-595-6 (1-914)  
QY 1 GGCTTTGTAGTGGACAAAACCAAAATGGCTTACCTCCAAATCCAGGCATTGCTAAG 60  
Db 541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnLeuProGlyIleAlaLys 560  
QY 61 GTTGGCAGCTTGGAAATACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTACG 120  
Db 561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr 580  
QY 121 TCCGTCGCTCCAAATGCTACCTCCCTCCCAATACAGTCTCCAAACGAAACAGGAC 180  
Db 581 SerArgAlaSerAsnAlaThrLeuProPoleThrValThrSerLysThrAsnLysAsp 600  
RESULT 11  
US-10-235-994-26  
; Sequence 26, Application US/10235994  
; Publication No. US20030101002A1  
; GENERAL INFORMATION:  
; APPLICANT: Bartha, Gabor  
; APPLICANT: Walker, Michael  
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS  
; FILE REFERENCE: ICYTP012  
; CURRENT APPLICATION NUMBER: US/10/235,994  
; CURRENT FILING DATE: 2002-09-04  
; PRIOR APPLICATION NUMBER: US/10/003,608  
; PRIOR FILING DATE: 2001-11-01  
; PRIOR APPLICATION NUMBER: 60/245,081  
; PRIOR FILING DATE: 2000-11-01  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 26  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Human  
US-10-235-994-26  
Alignment Scores:  
Pred. No.: 2,57e-31 Length: 914  
Score: 315.00 Matches: 63  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 86.30% Indels: 0  
DB: 14 Gaps: 0  
US-09-049-696-11 (1-191) x US-10-235-994-26 (1-914)  
QY 1 GGCTTTGTAGTGGACAAAACCAAAATGGCTTACCTCCAAATCCAGGCATTGCTAAG 60  
Db 541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnLeuProGlyIleAlaLys 560  
QY 61 GTTGGCAGCTTGGAAATACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTACG 120  
Db 561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr 580  
QY 121 TCCGTCGCTCCAAATGCTACCTCCCTCCCAATACAGTCTCCAAACGAAACAGGAC 180  
Db 581 SerArgAlaSerAsnAlaThrLeuProPoleThrValThrSerLysThrAsnLysAsp 600  
RESULT 12  
US-10-060-255-42  
; Sequence 42, Application US/10060255  
; Publication No. US20030113840A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 25 Human secreted proteins  
; FILE REFERENCE: P2042P1  
; CURRENT APPLICATION NUMBER: US/10/060,255  
; CURRENT FILING DATE: 2002-02-01  
; PRIOR APPLICATION NUMBER: 09/781,417  
; PRIOR FILING DATE: 2001-02-13  
; PRIOR APPLICATION NUMBER: PCT/US00/22325  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: 60/149,182  
; PRIOR FILING DATE: 1999-08-17  
; NUMBER OF SEQ ID NOS: 86  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 42  
; LENGTH: 914

; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-060-255-42

## Alignment Scores:

Pred. No.: 2,57e-31 Length: 914  
Score: 315.00 Matches: 63  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 86.30% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-11 (1-191) x US-10-060-255-42 (1-914)

QY 1 GCCTTTGTAGTGACAAAACCAAAATGGCTACCTCCAAATCCAGGCAATGCTTAAG 60  
|||  
Db 541 GlyPheValValAspLysAsnThrLysMetAlaTyLeuGlnIleProGlyIleAlaLys 560  
|||  
QY 61 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTCAAG 120  
|||  
Db 561 ValGlyThrTrpLysTySerLeuGlnAlaSerSerGlnThrLeuThrValThr 580  
|||  
QY 121 TCCCGTGCCTCAATGCTACCTGCTCCAAATACAGTACCTCCAAAACGAAAGGAC 180  
|||  
Db 581 SerArgAlaSerAsnAlaThrLeuProProlIleThrValThrSerLysThrAsnLysAsp 600  
|||  
QY 181 ACCAGCAAA 189  
|||  
Db 601 ThrSerLys 603

## RESULT 13

US-10-369-214-133

; Sequence 133, Application US/10369214  
; Publication No. US20030232037A1  
; GENERAL INFORMATION:  
; APPLICANT: Groot, Pieter C.  
; APPLICANT: Berghenhegouwen van, Bram J.  
; APPLICANT: Oosterhout van, Antoon J.M.  
; TITLE OF INVENTION: Genes involved in immune related responses observed  
; TITLE OF INVENTION: with asthma  
; FILE REFERENCE: P53837US00  
; CURRENT APPLICATION NUMBER: US/10/369,214  
; PRIOR FILING DATE: 2003-02-15  
; PRIOR APPLICATION NUMBER: EP 00202867.8  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: PCT/NL01/00610  
; PRIOR FILING DATE: 2001-08-16  
; NUMBER OF SEQ ID NOS: 139  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 133  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; LOCATION: (1)..(914)  
; OTHER INFORMATION: /note="Human CLC1"  
US-10-369-214-133

## Alignment Scores:

Pred. No.: 2,57e-31 Length: 914  
Score: 315.00 Matches: 63  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 86.30% Indels: 0  
DB: 15 Gaps: 0

US-09-049-696-11 (1-191) x US-10-369-214-133 (1-914)

QY 1 GCCTTTGTAGTGACAAAACCAAAATGGCTACCTCCAAATCCAGGCAATGCTTAAG 60  
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Db 541 GlyPheValValAspLysAsnThrLysMetAlaTyLeuGlnIleProGlyIleAlaLys 560  
|||

QY 61 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTCAAG 120  
|||  
Db 561 ValGlyThrTrpLysTySerLeuGlnAlaSerSerGlnThrLeuThrValThr 580  
|||  
QY 121 TCCCGTGCCTCAATGCTACCTGCTCCAAATACAGTACCTCCAAAACGAAAGGAC 180  
|||  
Db 581 SerArgAlaSerAsnAlaThrLeuProProlIleThrValThrSerLysThrAsnLysAsp 600  
|||  
QY 181 ACCAGCAAA 189  
|||  
Db 601 ThrSerLys 603

## RESULT 14

US-09-764-868-635

; Sequence 635, Application US/09764868  
; Patent No. US20020188711A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PT232  
; CURRENT APPLICATION NUMBER: US/09/764,868  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 1510  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 635  
; LENGTH: 925  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-764-868-635

## Alignment Scores:

Pred. No.: 2,57e-31 Length: 925  
Score: 315.00 Matches: 63  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 86.30% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-11 (1-191) x US-09-764-868-635 (1-925)

QY 1 GCCTTTGTAGTGACAAAACCAAAATGGCTACCTCCAAATCCAGGCAATGCTTAAG 60  
|||  
Db 552 GlyPheValValAspLysAsnThrLysMetAlaTyLeuGlnIleProGlyIleAlaLys 571  
|||  
QY 61 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTCAAG 120  
|||  
Db 572 ValGlyThrTrpLysTySerLeuGlnAlaSerSerGlnThrLeuThrValThr 591  
|||  
QY 121 TCCCGTGCCTCAATGCTACCTGCTCCAAATACAGTACCTCCAAAACGAAAGGAC 180  
|||  
Db 592 SerArgAlaSerAsnAlaThrLeuProProlIleThrValThrSerLysThrAsnLysAsp 611  
|||  
QY 181 ACCAGCAAA 189  
|||  
Db 612 ThrSerLys 614

## RESULT 15

US-10-106-698-6248

; Sequence 6248, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03

; NUMBER OF SEQ ID NOS: 9564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 6248  
; LENGTH: 925  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-106-698-6248

Alignment Scores:  
Pred. No.: 2.57e-31 Length: 925  
Score: 315.00 Matches: 63  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 86.30% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-11 (1-191) x US-10-106-698-6248 (1-925)

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DB	552	GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys	571
QY	61	GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAAACCTTGACCCCTGACTGTCACG	120
DB	572	ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr	591
QY	121	TCCCGTGCCTCCCAATGCTACCCCTGCCTCCCAATTACAGTGACTTCCAAACCGAAACAAAGGAC	180
DB	592	SerArgAlaSerAsnAlaThrLeuProProlleThrValThrSerLysThrAsnLysAsp	611
QY	181	ACCAGCAAA	189
DB	612	ThrSerLys	614

Search completed: April 21, 2004, 16:39:13  
Job time : 37.4984 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - protein search, using frame\_plus\_n2p model

Run on: April 21, 2004, 16:13:29 ; Search time 9.74662 Seconds  
(without alignments)  
2023.381 Million cell updates/sec

Title: US-09-049-696-11  
Perfect score: 365  
Sequence: 1 GCGTTTGTAGTGACAAAAA.....AACAGGACACCAAGCAATT 191

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Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 778828

Minimum DB seq length: 0  
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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued Patents AA:\*  
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2: /cgn2\_6/ptodata/2/iaa/5B\_COMB.pep.\*  
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5: /cgn2\_6/ptodata/2/iaa/PCTUS\_COMB.pep.\*  
6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	315	86.3	914	4	US-09-623-624-6
3	246	67.4	913	4	US-09-623-624-2
4	207	56.7	917	4	US-09-049-698-41
5	153	41.9	795	4	US-09-193-562D-11
6	153	41.9	821	4	US-09-193-562D-12
7	153	41.9	905	4	US-09-193-562D-2
8	151	41.4	903	4	US-09-193-562D-46
9	146	40.0	903	4	US-09-623-624-18
10	124.5	34.1	791	4	US-09-643-597-170
11	124.5	34.1	791	4	US-09-480-884A-170
12	124.5	34.1	791	4	US-09-542-615A-170

13	124.5	34.1	791	4	US-09-606-421B-170	Sequence 170, App
14	124.5	34.1	920	4	US-09-643-597-357	Sequence 357, App
15	124.5	34.1	942	4	US-09-919-172-87	Sequence 87, App
16	124.5	34.1	943	4	US-09-643-597-161	Sequence 161, App
17	124.5	34.1	943	4	US-09-480-884A-161	Sequence 161, App
18	124.5	34.1	943	4	US-09-542-615A-161	Sequence 161, App
19	124.5	34.1	943	4	US-09-606-421B-161	Sequence 161, App
20	124.5	34.1	943	4	US-09-623-624-4	Sequence 4, Appli
21	124.5	34.1	943	4	US-09-221-107-161	Sequence 161, App
22	121.5	33.3	943	4	US-09-193-562D-32	Sequence 32, Appl
23	115.5	31.6	1000	4	US-09-193-562D-30	Sequence 30, Appl
24	115	31.5	902	4	US-09-193-562D-34	Sequence 34, Appl
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25	68.5	18.9	299	4	US-09-489-039A-9428	Sequence 9428, Ap
26	66	18.1	252	2	US-08-414-657D-56	Sequence 56, Appl
27	66	18.1	252	2	US-08-414-657D-57	Sequence 57, Appl
28	66	18.1	287	2	US-08-414-657D-48	Sequence 48, Appl
29	66	18.1	287	2	US-08-414-657D-49	Sequence 49, Appl
30	66	18.1	304	2	US-08-414-657D-44	Sequence 44, Appl
31	66	18.1	308	2	US-08-414-657D-46	Sequence 46, Appl
32	66	18.1	310	2	US-08-414-657D-45	Sequence 45, Appl
33	66	18.1	315	2	US-08-414-657D-47	Sequence 47, Appl
34	66	18.1	325	2	US-08-414-657D-2	Sequence 2, Appli
35	66	18.1	325	2	US-08-414-657D-41	Sequence 41, Appl
36	66	18.1	325	2	US-09-135-080-2	Sequence 2, Appli
37	66	18.1	338	2	US-08-414-657D-42	Sequence 42, Appl
38	66	18.1	338	2	US-08-414-657D-43	Sequence 43, Appl
39	66	18.1	338	2	US-08-414-657D-60	Sequence 60, Appl
40	66	18.1	338	4	US-09-135-080-4	Sequence 4, Appli
41	66	18.1	338	4	US-09-135-080-8	Sequence 8, Appli
42	66	18.1	338	4	US-09-576-594-404	Sequence 404, App
43	63	17.3	349	3	US-09-009-620-2	Sequence 2, Appli
c						
44	63	17.4	575	4	US-09-489-039A-12024	Sequence 12024, A
45	63	17.3	592	4	US-09-643-597-169	Sequence 169, App

ALIGNMENTS

RESULT 1  
US-09-193-562D-28  
; Sequence 28, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 28  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-193-562D-28

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Percent Similarity:	100.00%	Conservative:	0	
Best Local Similarity:	100.00%	Mismatches:	0	
Query Match:	86.30%	Indels:	0	
DB:	4	Gaps:	0	
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QY	61	GTTCGACCTTGGAAATACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTCACG	120	

Db	561	ValGlyThrTrpLysTyrSerLeuGlnIlaSerSerGlnThrLeuThrLeuThrValThr	580
Qy	121	TCCGFGCTCCAAATGCTACCTGCTGCTCCAAATACAGTGACTTCCAAAACGACAGAGAC	180
Db	581	SerArgAlaSerAsnAlaThrLeuProIleThrValThrSerLysThrAsnLysAsp	600
Qy	181	ACCAGCAAA	189
Db	601	ThrSerLys	603

RESULT 2

US-09-623-624-6

Sequence 6, Application US/09623624

Patent No. 6576434

GENERAL INFORMATION:

APPLICANT: Magainin Pharmaceuticals, Inc.

TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating

TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related

TITLE OF INVENTION: Disorders

FILE REFERENCE: 36870-5073-WO

CURRENT APPLICATION NUMBER: US/09/623,624

CURRENT FILING DATE: 2000-09-06

PRIOR APPLICATION NUMBER: PCT/US99/04703

PRIOR FILING DATE: 1999-03-03

PRIOR APPLICATION NUMBER: US 08/697,360

PRIOR FILING DATE: 1996-08-23

PRIOR APPLICATION NUMBER: US 08/697,419

PRIOR FILING DATE: 1996-08-23

PRIOR APPLICATION NUMBER: US 08/697,440

PRIOR FILING DATE: 1996-08-23

PRIOR APPLICATION NUMBER: US 08/697,471

PRIOR FILING DATE: 1996-08-23

PRIOR APPLICATION NUMBER: US 08/697,471

PRIOR FILING DATE: 1996-08-23

PRIOR APPLICATION NUMBER: US 08/697,472

PRIOR FILING DATE: 1996-08-23

PRIOR APPLICATION NUMBER: US 08/697,473

PRIOR FILING DATE: 1996-08-23

PRIOR APPLICATION NUMBER: US 08/702,105

PRIOR FILING DATE: 1996-08-23

PRIOR APPLICATION NUMBER: US 08/702,110

PRIOR FILING DATE: 1996-08-23

PRIOR APPLICATION NUMBER: US 08/702,168

PRIOR FILING DATE: 1996-08-23

PRIOR APPLICATION NUMBER: US 08/980,872

PRIOR FILING DATE: 1997-12-01

NUMBER OF SEQ ID NOS: 18

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 6

LENGTH: 914

TYPE: PRT

ORGANISM: Homo sapiens

US-09-623-624-6

Alignment Scores:

Seq. No.: 1,22e-33

Score: 315.00

Percent Similarity: 100.00%

Best Local Similarity: 100.00%

Query Match: 86.30%

DB: 4

Length: 914

Matches: 63

Conservative: 0

Mismatches: 0

Indels: 0

Gaps: 0

[illegible]

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||||| 581 SerArgAlaSerAsnAlaThrLeuProIleThrValThrSerLysThrAsnLysAsp 600
|||||
QY 181 ACCAGCAAA 189
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Db 601 ThrSerLys 603
|||||

RESULT 3
US-09-623-624-2
; Sequence 2, Application US/09623624
; Patent No. 6576434
; GENERAL INFORMATION:
; APPLICANT: Magainin Pharmaceuticals, Inc.
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/09/623,624
; CURRENT FILING DATE: 2000-09-05
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,110
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,168
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/980,872
; PRIOR FILING DATE: 1997-12-01
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 913
; TYPE: PRT
; ORGANISM: Mus musculus
; US-09-623-624-2

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Alignment Scores:			
Pred. NO.:	2.11e-24	Length:	913
Score:	246.00	Matches:	47
Percent Similarity:	87.30%	Conservative:	8
Best Local Similarity:	74.60%	Mismatches:	8
Query Match:	67.40%	Indels:	0
DB:	4	Gaps:	0
US-09-049-696-11 (1-191) x US-09-623-624-2 (1-913)			
Qy	1	GGCTTTGTAGTGGACAAACACCAAAATGGCGCTACCTCCAAATCCAGGCATTGCTAAG	60
		.....	
Db	542	GlyPheIleLeuAgsThrThrThrIysValAlaTyrLeuGlnValProGlyThrAlaLys	561
		.....	
Qy	61	GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAAACCTTCGACCTGACTGTCACG	120
		.....	
Db	562	ValGlyPheTrpLysTyrSerIleGlnAlaSerSerGlnThrLeuThrLeuThrValThr	581
		.....	
Qy	121	TCCCGTGGCTCCAAATGCTTACCGCTCCAAATTCAGTGCATTCCTCCAAACGACCAAGGAC	180
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Db	582	SerArgAlaAlaSerAlaThrLeuProProlleThrValThrProValValAsnLysAsn	601



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QY 181 ACCAGCAA 189
Db 602 ThrGlyLys 604

RESULT 4
US-09-049-698-41
; Sequence 41, Application US/09049698
; Patent No. 6368792
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA A.
; APPLICANT: COHEN MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: HAYDEN, MARK
; APPLICANT: KLASS, MICHAEL R.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL
; TITLE OF INVENTION: TRACT
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/049,698
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/828,856
; FILING DATE: 31-MAR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6068.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 41:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 917 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: No. 6368792e
US-09-049-698-41

Alignment Scores:
Pred. No.: 3-51e-19 Length: 917
Score: 207.00 Matches: 40
Percent Similarity: 80.95% Conservative: 11
Best Local Similarity: 63.49% Mismatches: 10
Query Match: 56.71% Indels: 2
DB: 4 Gaps: 1

US-09-049-696-11 (1-191) x US-09-049-698-41 (1-917)
QY 4 TTTGTAGTGACAAAACCAAAATGGCTACCTCCAAATCCAGGCAATTCGTAAGTT 63
Db 543 PheThrValAspAlaThrSerLysMetAlaThrLeuSerIleProGlyThrAlaLysVal 562
QY 64 GGCACTTGGAATACAGTCTGCAAGCAAGCTCA-----CAAACTTTGACCTTGACTGTC 117

QY 181 ACCAGCAA 189
Db 602 ThrGlyLys 604

RESULT 5
US-09-193-562D-11
; Sequence 11, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 11
; LENGTH: 795
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-11

Alignment Scores:
Pred. No.: 5-74e-12 Length: 795
Score: 153.00 Matches: 34
Percent Similarity: 69.23% Conservative: 11
Best Local Similarity: 52.31% Mismatches: 16
Query Match: 41.92% Indels: 4
DB: 4 Gaps: 2

US-09-049-696-11 (1-191) x US-09-193-562D-11 (1-795)
QY 4 TTTGTAGTGACAAA---AACACCAAAATGGCTACCTCCAAATCCAGGCAATTCGTAAG 60
Db 546 PheLysGluAspLysLeuAsnIleArgSerAlaArgLeuGlnIleProGlyIleAlaGlu 565
QY 61 GTTGCACTTGGAATACAGTCTG-----CAAGCAAGCTCACAACCTTGACCTG 111
Db 566 ThrGlyThrTrpThrTyrSerLeuLeuAsnHisAlaSerSerGlnMetLeuThrVal 585
QY 112 ACTGTCACGTCGCGTCCCAATGCTACCTCCCTCCCAATTCACATGCTGCTCAAAACG 171
Db 586 ThrValThrArgAlaArgSerProThrIleProProValIleAlaThrAlaHisMet 605
QY 172 AACAGGACACCCAGC 186
Db 606 SerGlnHisThrAla 610

RESULT 6
US-09-193-562D-12
; Sequence 12, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
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; SEQ ID NO 12
; LENGTH: 821
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-12

Alignment Scores:
Pred. No.: 5.79e-12 Length: 821
Score: 153.00 Matches: 34
Percent Similarity: 69.23% Conservative: 11
Best Local Similarity: 52.31% Mismatches: 16
Query Match: 41.92% Indels: 4
DB: 2

US-09-049-696-11 (1-191) x US-09-193-562D-12 (1-821)
QY 4 TTGTAGTGGACAAA---AACACCAAAATGGCTACCTCCAAATCCAGGCATTGCTAAG 60
Db 546 PheLysGluAspLysLeuAsnIleArgSerAlaArgLeuGlnIleProGlyIleAlaGlu 565
QY 61 GTTGGCACTTGGAAATACAGTCTG-----CAAGCAAGCTCACAACCTTGACCCCTG 111
Db 566 ThrGlyThrTripThrTyrSerLeuLeuAsnAsnHisAlaSerSerGlnMetLeuThrVal 585
QY 112 ACTGTCACGTCGCGTCCCAATGCTACCTACCTGCTCCCAATACAGTGACTTCCAAAAGC 171
Db 586 ThrValThrThrArgAlaArgSerProThrIleProProValIleAlaThrAlaHisMet 605
QY 172 AACAGGACACACG 186
Db 606 SerGlnHisThrAla 610

RESULT 7
US-09-193-562D-2
; Sequence 2, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 2
; LENGTH: 905
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells
US-09-193-562D-2

Alignment Scores:
Pred. No.: 5.93e-12 Length: 905
Score: 153.00 Matches: 34
Percent Similarity: 69.23% Conservative: 11
Best Local Similarity: 52.31% Mismatches: 16
Query Match: 41.92% Indels: 4
DB: 2

US-09-049-696-11 (1-191) x US-09-193-562D-2 (1-905)
QY 4 TTGTAGTGGACAAA---AACACCAAAATGGCTACCTCCAAATCCAGGCATTGCTAAG 60
Db 546 PheLysGluAspLysLeuAsnIleArgSerAlaArgLeuGlnIleProGlyIleAlaGlu 565
QY 61 GTTGGCACTTGGAAATACAGTCTG-----CAAGCAAGCTCACAACCTTGACCCCTG 111
Db 566 ThrGlyThrTripThrTyrSerLeuLeuAsnAsnHisAlaSerSerGlnMetLeuThrVal 585
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QY 112 ACTGTCACGTCGCGTCCCAATGCTACCTGCTCCAAATACAGTGACTTCCAAAAGC 171
Db 586 ThrValThrThrArgAlaArgSerProThrIleProProValIleAlaThrAlaHisMet 605

QY 172 AACAGGACACACG 186
Db 606 SerGlnHisThrAla 610

RESULT 8
US-09-193-562D-46
; Sequence 46, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 46
; LENGTH: 903
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Calcium sensitive chloride channel from bovine tracheal
; OTHER INFORMATION: epithelium (Cunningham et al., 1995, J. Biol Chem., 270:31016-
US-09-193-562D-46

Alignment Scores:
Pred. No.: 1.1e-11 Length: 903
Score: 151.00 Matches: 34
Percent Similarity: 67.69% Conservative: 10
Best Local Similarity: 52.31% Mismatches: 17
Query Match: 41.37% Indels: 4
DB: 2

US-09-049-696-11 (1-191) x US-09-193-562D-46 (1-903)
QY 4 TTGTAGTGGACAAA---AACACCAAAATGGCTACCTCCAAATCCAGGCATTGCTAAG 60
Db 545 PheLysGluAspLysLeuAsnIleHisSerAlaArgLeuArgIleProGlyIleAlaGlu 564
QY 61 GTTGGCACTTGGAAATACAGTCTG-----CAAGCAAGCTCACAACCTTGACCCCTG 111
Db 565 ThrGlyThrTripThrTyrSerLeuLeuAsnAsnHisAlaSerProGlnIleLeuThrVal 584
QY 112 ACTGTCACGTCGCGTCCCAATGCTACCTGCTCCCAATACAGTGACTTCCAAAAGC 171
Db 585 ThrValThrThrArgAlaArgSerProThrIleProProValThrAlaThrAlaHisMet 604

QY 172 AACAGGACACACG 186
Db 605 AsnGlnAsnThrAla 609

RESULT 9
US-09-623-624-18
; Sequence 18, Application US/09623624
; Patent No. 6576434
; GENERAL INFORMATION:
; APPLICANT: Magainin Pharmaceuticals, Inc.
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/09/623,624
; CURRENT FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
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Alignment Scores:
Pred. No.: 3.89e-08 Length: 920
Score: 124.50 Matches: 28
Percent Similarity: 60.32% Conservative: 10
Best Local Similarity: 44.44% Mismatches: 22
Query Match: 34.11% Indels: 3
DB: 4 Gaps: 1

US-09-049-696-11 (1-191) x US-09-643-597-357 (1-920)
QY 4 TTTGTAGTGGACAAAACACCAAAATGGCTACTCCAAATCCAGGCATTGCTAAGGTT 63
Db 530 PheilleThrAsnLeuThrPheArgThrAlaSerLeuTrpIleProGlyThrAlaLysPro 549
QY 64 GGCACCTTGGAAATACAGTCTG-----CAAGCAAGCTCACAACCTTGACCCCTGACT 114
Db 550 GlyHisTrpThrTyThrLeuAsnAsnThrHisHisSerLeuGlnAlaLeuLysValThr 569
QY 115 GTCACGTCCTCGTCGCTCCCAATGCTACCTGCTCCCAATTACAGTGACTTCCAAAACGAAC 174
Db 570 ValThrSerArgAlaSerAsnSerAlaValProAlaThrValGluAlaPheValGlu 589
QY 175 AAGGACACC 183
Db 590 ArgAspSer 592

RESULT 15
US-09-919-172-87
; Sequence 87, Application US/09919172
; Patent No. 6673545
; GENERAL INFORMATION:
; APPLICANT: Faris, Mary
; APPLICANT: Turner, Christopher M.
; TITLE OF INVENTION: PROSTATE CANCER MARKERS
; FILE REFERENCE: PA-0036 US
; CURRENT APPLICATION NUMBER: US/09/919,172
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/222,469
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 102
; SOFTWARE: PERL Program
; SEQ ID NO 87
; LENGTH: 942
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6673545 2733282CD1
US-09-919-172-87

Alignment Scores:
Pred. No.: 3.92e-08 Length: 942
Score: 124.50 Matches: 28
Percent Similarity: 60.32% Conservative: 10
Best Local Similarity: 44.44% Mismatches: 22
Query Match: 34.11% Indels: 3
DB: 4 Gaps: 1

US-09-049-696-11 (1-191) x US-09-919-172-87 (1-942)
QY 4 TTTGTAGTGGACAAAACACCAAAATGGCTACTCCAAATCCAGGCATTGCTAAGGTT 63
Db 552 PheilleThrAsnLeuThrPheArgThrAlaSerLeuTrpIleProGlyThrAlaLysPro 571
QY 64 GGCACCTTGGAAATACAGTCTG-----CAAGCAAGCTCACAACCTTGACCCCTGACT 114
Db 572 GlyHisTrpThrTyThrLeuAsnAsnThrHisHisSerLeuGlnAlaLeuLysValThr 591
QY 115 GTCACGTCCTCGTCGCTCCCAATGCTACCTGCTCCCAATTACAGTGACTTCCAAAACGAAC 174
Db 592 ValThrSerArgAlaSerAsnSerAlaValProAlaThrValGluAlaPheValGlu 611
QY 175 AAGGACACC 183
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Db 612 ArgAspSer 614

Search completed: April 21, 2004, 16:22:17  
Job time : 12.7466 secs

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: April 24, 2004, 04:05:52 ; Search time 122.552 Seconds  
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8424.829 Million cell updates/sec

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Perfect score: 229  
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Gapop 10.0 , Gapext 1.0

Searched: 2907579 seqs, 2254313464 residues

Total number of hits satisfying chosen parameters: 5815158

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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14: /cgn2\_6/ptodata/2/pubpna/US10A\_PUBCOMB.seq: \*  
15: /cgn2\_6/ptodata/2/pubpna/US10B\_PUBCOMB.seq: \*  
16: /cgn2\_6/ptodata/2/pubpna/US10C\_PUBCOMB.seq: \*  
17: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq: \*  
18: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq: \*  
19: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	229	100.0	1512	16	US-10-305-720-850
2	229	100.0	2745	15	US-10-270-595-5
3	229	100.0	2854	15	US-10-106-698-1971
4	229	100.0	2867	15	US-10-106-698-351
5	229	100.0	3007	15	US-10-055-412B-27
6	229	100.0	3109	15	US-10-106-698-2111
7	229	100.0	3111	9	US-09-823-356-25
8	229	100.0	3111	9	US-09-823-356-25
9	229	100.0	3111	15	US-10-235-994-25
10	229	100.0	3267	9	US-09-764-868-22
11	229	100.0	3311	9	US-09-922-217-1056
12	229	100.0	3311	9	US-09-922-217-1056
13	229	100.0	3311	14	US-10-025-380-1056
14	229	100.0	3311	15	US-10-393-590-11

15	229	100.0	3311	15	US-10-393-590-12	Sequence 12, Appl
16	229	100.0	3311	15	US-10-393-590-46	Sequence 46, Appl
17	229	100.0	3311	15	US-10-393-590-47	Sequence 47, Appl
18	229	100.0	3311	15	US-10-393-567-11	Sequence 11, Appl
19	229	100.0	3311	15	US-10-393-567-12	Sequence 12, Appl
20	229	100.0	3311	15	US-10-393-567-46	Sequence 46, Appl
21	229	100.0	3311	15	US-10-393-567-47	Sequence 47, Appl
22	229	100.0	3311	15	US-10-394-087-11	Sequence 11, Appl
23	229	100.0	3311	15	US-10-394-087-12	Sequence 12, Appl
24	229	100.0	3311	15	US-10-394-087-46	Sequence 46, Appl
25	229	100.0	3311	15	US-10-394-087-47	Sequence 47, Appl
26	227.4	99.3	4569	10	US-09-867-034-3	Sequence 3, Appl
27	227.4	99.3	4569	13	US-10-276-115-3	Sequence 2111, Ap
28	226.4	98.9	527	15	US-10-066-543-2111	Sequence 2349, Ap
29	225.8	98.6	544	15	US-10-066-543-2349	Sequence 1693, Ap
30	167	70.9	507	15	US-10-066-543-1693	Sequence 1, Appl
31	161.8	70.7	2931	15	US-10-270-595-1	Sequence 1851, Ap
32	130	56.8	653	14	US-10-033-528-1851	Sequence 1851, Ap
33	130	56.8	653	15	US-10-099-926-1851	Sequence 33, Appl
34	107.4	46.9	2754	15	US-10-345-680-33	Sequence 16, Appl
35	107.4	46.9	3043	14	US-10-025-167-16	Sequence 53, Appl
36	107.4	46.9	3169	9	US-09-981-353-53	Sequence 15, Appl
37	107.4	46.9	3169	15	US-10-235-994-15	Sequence 18, Appl
38	107.4	46.9	3181	14	US-10-025-167-18	Sequence 22, Appl
39	107.4	46.9	3195	10	US-09-867-034-22	Sequence 39, Appl
40	107.4	46.9	3195	13	US-10-276-115-22	Sequence 993, App
41	107.4	46.9	3196	15	US-10-158-646-39	Sequence 31, Appl
42	107.4	46.9	3199	13	US-10-276-774-993	Sequence 660, App
43	107.4	46.9	3204	15	US-10-345-680-31	Sequence 33, Appl
44	107.4	46.9	3207	15	US-10-101-510-660	
45	107.4	46.9	3218	16	US-10-087-080-33	

ALIGNMENTS

RESULT 1  
US-10-305-720-850  
; Sequence 850, Application US/10305720  
; Publication No. US20040010136A1  
; GENERAL INFORMATION:  
; APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J.  
; TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expression  
; FILE REFERENCE: PA-0002-1 CON.  
; CURRENT APPLICATION NUMBER: US/10/305,720  
; CURRENT FILING DATE: 2002-11-26  
; PRIOR APPLICATION NUMBER: 09/016,434  
; PRIOR FILING DATE: 1998-01-30  
; NUMBER OF SEQ ID NOS: 1490  
; SOFTWARE: PERL Program  
; SEQ ID NO 850  
; LENGTH: 1512  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20040010136A1 608819  
US-10-305-720-850

Query Match	100.0%;	Score	229;	DB	16;	Length	1512;
Best Local Similarity	100.0%;	Pred. No.	3.5e-70;				
Matches	229;	Conservative	0;	Mismatches	0;	Indels	0;
QY	1	GGCACAGTATCGTGACAGCACCGTGGGAAGGACACTTGTCTTATCACCCTGGACA	60				
Db	234	GGCACAGTATCGTGACAGCACCGTGGGAAGGACACTTGTCTTATCACCCTGGACA	293				
QY	61	ACGACGCTCCCAAAATCTTCTCTGGATCCAGTGGACAGCAAGCAAGTGGCTTTGTA	120				
Db	294	ACGACGCTCCCAAAATCTTCTCTGGATCCAGTGGACAGCAAGCAAGTGGCTTTGTA	353				
QY	121	GTGGACAAACACCAAAATGGCTTACCTCCAAATCCAGGCATTCCTAAGTTGGCACT	180				

Db 354 GTGGACAAACACCAAAATGGCTTACCTCCAAATCCAGGATTGCTAAGGTTGGCACT 413  
QY 181 TGGAAATACAGTCTGCAAGCAGCTCACAAACCTTGACCCCTGACTGTCA 229  
Db 414 TGGAAATACAGTCTGCAAGCAGCTCACAAACCTTGACCCCTGACTGTCA 462

## RESULT 2

US-10-270-595-5  
; Sequence 5, Application US/10270595  
; Publication No. US20030078409A1  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; CURRENT FILING DATE: 2002-10-16  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 2745  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(2742)  
US-10-270-595-5

Query Match 100.0%; Score 229; DB 15; Length 2745;  
Best Local Similarity 100.0%; Pred. No. 4.3e-70;  
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GGCACAGTGATCGTGGACAGCACCGTGGGAAAGGACACTTTGTTCTTATCACCCTGGACA 60  
Db 1510 GGCACAGTGATCGTGGACAGCACCGTGGGAAAGGACACTTTGTTCTTATCACCCTGGACA 1569  
QY 61 ACGCAGCTCCCAAAATCCTTCTCTGGGATCCAGTGGACAGAACGAGTGGCTTTGTA 120  
Db 1570 ACGCAGCTCCCAAAATCCTTCTCTGGGATCCAGTGGACAGAACGAGTGGCTTTGTA 1629  
QY 121 GTGGACAAACACCAAAATGGCTTACCTCCAAATCCAGGATTGCTAAGGTTGGCACT 180  
Db 1630 GTGGACAAACACCAAAATGGCTTACCTCCAAATCCAGGATTGCTAAGGTTGGCACT 1689  
QY 181 TGGAAATACAGTCTGCAAGCAGCTCACAAACCTTGACCCCTGACTGTCA 229  
Db 1690 TGGAAATACAGTCTGCAAGCAGCTCACAAACCTTGACCCCTGACTGTCA 1738

## RESULT 3

QY 1 GGCACAGTGATCGTGGACAGCACCGTGGGAAAGGACACTTTGTTCTTATCACCCTGGACA 60

US-10-106-698-1971  
; Sequence 1971, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 1971  
; LENGTH: 2854  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-106-698-1971

Query Match 100.0%; Score 229; DB 15; Length 2854;  
Best Local Similarity 100.0%; Pred. No. 4.4e-70;  
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GGCACAGTGATCGTGGACAGCACCGTGGGAAAGGACACTTTGTTCTTATCACCCTGGACA 60  
Db 1544 GGCACAGTGATCGTGGACAGCACCGTGGGAAAGGACACTTTGTTCTTATCACCCTGGACA 1603  
QY 61 ACGCAGCTCCCAAAATCCTTCTCTGGGATCCAGTGGACAGAACGAGTGGCTTTGTA 120  
Db 1604 ACGCAGCTCCCAAAATCCTTCTCTGGGATCCAGTGGACAGAACGAGTGGCTTTGTA 1663  
QY 121 GTGGACAAACACCAAAATGGCTTACCTCCAAATCCAGGATTGCTAAGGTTGGCACT 180  
Db 1664 GTGGACAAACACCAAAATGGCTTACCTCCAAATCCAGGATTGCTAAGGTTGGCACT 1723  
QY 181 TGGAAATACAGTCTGCAAGCAGCTCACAAACCTTGACCCCTGACTGTCA 229  
Db 1724 TGGAAATACAGTCTGCAAGCAGCTCACAAACCTTGACCCCTGACTGTCA 1772

## RESULT 4

US-10-106-698-351  
; Sequence 351, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 351  
; LENGTH: 2867  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-106-698-351

Query Match 100.0%; Score 229; DB 15; Length 2867;  
Best Local Similarity 100.0%; Pred. No. 4.4e-70;  
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;



Db 1548 GGACACAGTGATCGTGGACAGCAGCCGTGGGAAGGACACTTTGTTCTTATCACCTGGACA 1607  
QY 61 ACCGAGCTCCCAAAATCCTTCTCTGGATCCAGTGGACAGAAAGCAAGTGGCTTTGTA 120  
Db 1608 ACCGAGCTCCCAAAATCCTTCTCTGGATCCAGTGGACAGAAAGCAAGTGGCTTTGTA 1667  
QY 121 GTGGACAAAACACCAAAATGGCTACCTCCAAATCCAGGCATTCGTAAGGTTGGCACT 180  
Db 1668 GTGGACAAAACACCAAAATGGCTACCTCCAAATCCAGGCATTCGTAAGGTTGGCACT 1727  
QY 181 TGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTCA 229  
Db 1728 TGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTCA 1776

## RESULT 5

US-10-055-412B-27  
; Sequence 27, Application US/10055412B  
; Publication No. US20030059861A1  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; PRIOR FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 27  
; LENGTH: 3007  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-055-412B-27

Query Match 100.0%; Score 229; DB 15; Length 3007;  
Best Local Similarity 100.0%; Pred. No. 4.5e-70;  
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GGACACAGTGATCGTGGACAGCAGCCGTGGGAAGGACACTTTGTTCTTATCACCTGGACA 60  
Db 1556 GGACACAGTGATCGTGGACAGCAGCCGTGGGAAGGACACTTTGTTCTTATCACCTGGACA 1615  
QY 61 ACCGAGCTCCCAAAATCCTTCTCTGGATCCAGTGGACAGAAAGCAAGTGGCTTTGTA 120  
Db 1616 ACCGAGCTCCCAAAATCCTTCTCTGGATCCAGTGGACAGAAAGCAAGTGGCTTTGTA 1675  
QY 121 GTGGACAAAACACCAAAATGGCTACCTCCAAATCCAGGCATTCGTAAGGTTGGCACT 180  
Db 1676 GTGGACAAAACACCAAAATGGCTACCTCCAAATCCAGGCATTCGTAAGGTTGGCACT 1735  
QY 181 TGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTCA 229  
Db 1736 TGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTCA 1784

## RESULT 6

US-10-106-698-2111  
; Sequence 2111, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29

; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 2111  
; LENGTH: 3109  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-106-698-2111  
Query Match 100.0%; Score 229; DB 15; Length 3109;  
Best Local Similarity 100.0%; Pred. No. 4.5e-70;  
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GGACACAGTGATCGTGGACAGCAGCCGTGGGAAGGACACTTTGTTCTTATCACCTGGACA 60  
Db 1397 GGACACAGTGATCGTGGACAGCAGCCGTGGGAAGGACACTTTGTTCTTATCACCTGGACA 1456  
QY 61 ACCGAGCTCCCAAAATCCTTCTCTGGATCCAGTGGACAGAAAGCAAGTGGCTTTGTA 120  
Db 1457 ACCGAGCTCCCAAAATCCTTCTCTGGATCCAGTGGACAGAAAGCAAGTGGCTTTGTA 1516  
QY 121 GTGGACAAAACACCAAAATGGCTACCTCCAAATCCAGGCATTCGTAAGGTTGGCACT 180  
Db 1517 GTGGACAAAACACCAAAATGGCTACCTCCAAATCCAGGCATTCGTAAGGTTGGCACT 1576  
QY 181 TGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTCA 229  
Db 1577 TGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTCA 1625

## RESULT 7

US-09-823-356-25  
; Sequence 25, Application US/09823356  
; Patent No. US20010025098A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Kaser, Matthew R.  
; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
; FILE REFERENCE: PF-0489-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823,356  
; PRIOR FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/039,307  
; PRIOR FILING DATE: 1998 March 13  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PERL Program  
; SEQ ID NO 25  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775  
US-09-823-356-25

Query Match 100.0%; Score 229; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 4.5e-70;  
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GGACACAGTGATCGTGGACAGCAGCCGTGGGAAGGACACTTTGTTCTTATCACCTGGACA 60  
Db 1543 GGACACAGTGATCGTGGACAGCAGCCGTGGGAAGGACACTTTGTTCTTATCACCTGGACA 1602  
QY 61 ACCGAGCTCCCAAAATCCTTCTCTGGATCCAGTGGACAGAAAGCAAGTGGCTTTGTA 120

Db 1603 ACGAGCTCCCAAAATCTTCTCTGGATCCAGTGGACAGCAAGGTGGCTTTGTA 1662  
QY 121 GTGGACAAAACACCAAAATGGCTTACCTCCAAATCCAGGATTCCTAAGGTGGCACT 180  
Db 1663 GTGGACAAAACACCAAAATGGCTTACCTCCAAATCCAGGATTCCTAAGGTGGCACT 1722  
QY 181 TGGAAATACAGTCTGCAAGCAAGCTCACAAAACCTTGACCTGACTGTCA 229  
Db 1723 TGGAAATACAGTCTGCAAGCAAGCTCACAAAACCTTGACCTGACTGTCA 1771

## RESULT 8

US-09-981-353-191  
; Sequence 191, Application US/09981353  
; Patent No. US20020160382A1  
; GENERAL INFORMATION:  
; APPLICANT: Lasek, Amy W.  
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
; FILE REFERENCE: PA-0038 US  
; CURRENT APPLICATION NUMBER: US/09/981,353  
; CURRENT FILING DATE: 2001-10-11  
; NUMBER OF SEQ ID NOS: 194  
; SOFTWARE: PERL Program  
; SEQ ID NO 191  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20020160382A1 173775CB1  
US-09-981-353-191

Query Match 100.0%; Score 229; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 4.5e-70;  
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GGCACAGTGCCTGGACAGCACCGTGGGAAGGACACTTTGTTCTTATCACCTGGACA 60  
Db 1543 GGCACAGTGCCTGGACAGCACCGTGGGAAGGACACTTTGTTCTTATCACCTGGACA 1602  
QY 61 ACGAGCTCCCAAAATCTTCTCTGGATCCAGTGGACAGCAAGGTGGCTTTGTA 120  
Db 1603 ACGAGCTCCCAAAATCTTCTCTGGATCCAGTGGACAGCAAGGTGGCTTTGTA 1662  
QY 121 GTGGACAAAACACCAAAATGGCTTACCTCCAAATCCAGGATTCCTAAGGTGGCACT 180  
Db 1663 GTGGACAAAACACCAAAATGGCTTACCTCCAAATCCAGGATTCCTAAGGTGGCACT 1722  
QY 181 TGGAAATACAGTCTGCAAGCAAGCTCACAAAACCTTGACCTGACTGTCA 229  
Db 1723 TGGAAATACAGTCTGCAAGCAAGCTCACAAAACCTTGACCTGACTGTCA 1771

## RESULT 9

US-10-235-994-25  
; Sequence 25, Application US/10235994  
; Publication No. US20030101002A1  
; GENERAL INFORMATION:  
; APPLICANT: Walker, Michael  
; APPLICANT: Bartha, Gabor  
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS  
; FILE REFERENCE: ICYTP012  
; CURRENT APPLICATION NUMBER: US/10/235,994  
; CURRENT FILING DATE: 2002-09-04  
; PRIOR APPLICATION NUMBER: US/10/003,608  
; PRIOR FILING DATE: 2001-11-01  
; PRIOR APPLICATION NUMBER: 60/245,081  
; PRIOR FILING DATE: 2000-11-01  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 25  
; LENGTH: 3111

; TYPE: DNA  
; ORGANISM: Human  
US-10-235-994-25  
Query Match 100.0%; Score 229; DB 15; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 4.5e-70;  
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GGCACAGTGCCTGGACAGCACCGTGGGAAGGACACTTTGTTCTTATCACCTGGACA 60  
Db 1543 GGCACAGTGCCTGGACAGCACCGTGGGAAGGACACTTTGTTCTTATCACCTGGACA 1602  
QY 61 ACGAGCTCCCAAAATCTTCTCTGGATCCAGTGGACAGCAAGGTGGCTTTGTA 120  
Db 1603 ACGAGCTCCCAAAATCTTCTCTGGATCCAGTGGACAGCAAGGTGGCTTTGTA 1662  
QY 121 GTGGACAAAACACCAAAATGGCTTACCTCCAAATCCAGGATTCCTAAGGTGGCACT 180  
Db 1663 GTGGACAAAACACCAAAATGGCTTACCTCCAAATCCAGGATTCCTAAGGTGGCACT 1722  
QY 181 TGGAAATACAGTCTGCAAGCAAGCTCACAAAACCTTGACCTGACTGTCA 229  
Db 1723 TGGAAATACAGTCTGCAAGCAAGCTCACAAAACCTTGACCTGACTGTCA 1771

## RESULT 10

US-09-764-868-22  
; Sequence 22, Application US/09764868  
; Patent No. US20020168711A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PT232  
; CURRENT APPLICATION NUMBER: US/09/764,868  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 1510  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 22  
; LENGTH: 3267  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-764-868-22

Query Match 100.0%; Score 229; DB 9; Length 3267;  
Best Local Similarity 100.0%; Pred. No. 4.6e-70;  
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GGCACAGTGCCTGGACAGCACCGTGGGAAGGACACTTTGTTCTTATCACCTGGACA 60  
Db 1544 GGCACAGTGCCTGGACAGCACCGTGGGAAGGACACTTTGTTCTTATCACCTGGACA 1603  
QY 61 ACGAGCTCCCAAAATCTTCTCTGGATCCAGTGGACAGCAAGGTGGCTTTGTA 120  
Db 1604 ACGAGCTCCCAAAATCTTCTCTGGATCCAGTGGACAGCAAGGTGGCTTTGTA 1663  
QY 121 GTGGACAAAACACCAAAATGGCTTACCTCCAAATCCAGGATTCCTAAGGTGGCACT 180  
Db 1664 GTGGACAAAACACCAAAATGGCTTACCTCCAAATCCAGGATTCCTAAGGTGGCACT 1723  
QY 181 TGGAAATACAGTCTGCAAGCAAGCTCACAAAACCTTGACCTGACTGTCA 229  
Db 1724 TGGAAATACAGTCTGCAAGCAAGCTCACAAAACCTTGACCTGACTGTCA 1772

## RESULT 11

US-09-922-217-1056  
; Sequence 1056, Application US/09922217  
; Patent No. US20020076414A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather

```
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolck, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; CURRENT FILING DATE: 2001-08-03
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1056
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-922-217-1056

Query Match      100.0%; Score 229; DB 9; Length 3311;
Best Local Similarity 100.0%; Pred. No. 4.6e-70;
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCACAGTGATCGTGGACAGCACCGTGGGAAAGGACACTTTGTTCTTATCACCTGGACA 60
DB 1861 GGCACAGTGATCGTGGACAGCACCGTGGGAAAGGACACTTTGTTCTTATCACCTGGACA 1920

QY 61 AGCAGCCTCCCAAAATCCTTCTCTGGGATCCAGTGGACAGCAAGAGTGGCTTTGTA 120
DB 1921 AGCAGCCTCCCAAAATCCTTCTCTGGGATCCAGTGGACAGCAAGAGTGGCTTTGTA 1980

QY 121 GTGGACAAAACACCAAAATGCGCTACCTCCAAATCCAGGCAATGCTAAGGTTGGCACT 180
DB 1981 GTGGACAAAACACCAAAATGCGCTACCTCCAAATCCAGGCAATGCTAAGGTTGGCACT 2040

QY 181 TGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTCA 229
DB 2041 TGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTCA 2089

RESULT 13
US-10-025-380-1056
; Sequence 1056, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolck, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick Thomas S.
; APPLICANT: Carter, Darrick
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C14
; CURRENT APPLICATION NUMBER: US/10/025,380
; CURRENT FILING DATE: 2001-12-19
; NUMBER OF SEQ ID NOS: 1129
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1056
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-025-380-1056

Query Match      100.0%; Score 229; DB 14; Length 3311;
Best Local Similarity 100.0%; Pred. No. 4.6e-70;
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCACAGTGATCGTGGACAGCACCGTGGGAAAGGACACTTTGTTCTTATCACCTGGACA 60
DB 1861 GGCACAGTGATCGTGGACAGCACCGTGGGAAAGGACACTTTGTTCTTATCACCTGGACA 1920

QY 61 AGCAGCCTCCCAAAATCCTTCTCTGGGATCCAGTGGACAGCAAGAGTGGCTTTGTA 120
DB 1921 AGCAGCCTCCCAAAATCCTTCTCTGGGATCCAGTGGACAGCAAGAGTGGCTTTGTA 1980

QY 121 GTGGACAAAACACCAAAATGCGCTACCTCCAAATCCAGGCAATGCTAAGGTTGGCACT 180
DB 1981 GTGGACAAAACACCAAAATGCGCTACCTCCAAATCCAGGCAATGCTAAGGTTGGCACT 2040

QY 181 TGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTCA 229
DB 2041 TGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTCA 2089

RESULT 14
US-10-393-590-11
; Sequence 11, Application US/10393590
; Publication No. US20030190656A1
; GENERAL INFORMATION:
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolck, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/833,263
; CURRENT FILING DATE: 2001-04-10
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1056
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-833-263-1056

Query Match      100.0%; Score 229; DB 9; Length 3311;
Best Local Similarity 100.0%; Pred. No. 4.6e-70;
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCACAGTGATCGTGGACAGCACCGTGGGAAAGGACACTTTGTTCTTATCACCTGGACA 60
DB 1861 GGCACAGTGATCGTGGACAGCACCGTGGGAAAGGACACTTTGTTCTTATCACCTGGACA 1920
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; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; PRIOR FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 11  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-590-11

Query Match 100.0%; Score 229; DB 15; Length 3311;  
Best Local Similarity 100.0%; Pred. No. 4.6e-70;  
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GGCACAGTGCCTGGACAGCAGCCGGGAAAGGACACTTTGTTCTTATCACCTGGACA 60  
Db 1861 GGCACAGTGCCTGGACAGCAGCCGGGAAAGGACACTTTGTTCTTATCACCTGGACA 1920  
QY 61 ACGAGCCTCCCAAAATCCTTCTCTGGATCCAGTGGACAGCAAGCAAGTGGCTTTGTA 120  
Db 1921 ACGAGCCTCCCAAAATCCTTCTCTGGATCCAGTGGACAGCAAGCAAGTGGCTTTGTA 1980  
QY 121 GTGGACAAAACACCAAAATGGCTACCTCCAAATCCAGGGATTGCTAAGGTGGCACT 180  
Db 1981 GTGGACAAAACACCAAAATGGCTACCTCCAAATCCAGGGATTGCTAAGGTGGCACT 2040  
QY 181 TGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCCCTGACTGTCA 229  
Db 2041 TGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCCCTGACTGTCA 2089

## RESULT 15

US-10-393-590-12  
; Sequence 12, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; PRIOR FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 12  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-590-12

Query Match 100.0%; Score 229; DB 15; Length 3311;  
Best Local Similarity 100.0%; Pred. No. 4.6e-70;  
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GGCACAGTGCCTGGACAGCAGCCGGGAAAGGACACTTTGTTCTTATCACCTGGACA 60  
Db 1861 GGCACAGTGCCTGGACAGCAGCCGGGAAAGGACACTTTGTTCTTATCACCTGGACA 1920  
QY 61 ACGAGCCTCCCAAAATCCTTCTCTGGATCCAGTGGACAGCAAGCAAGTGGCTTTGTA 120  
Db 1921 ACGAGCCTCCCAAAATCCTTCTCTGGATCCAGTGGACAGCAAGCAAGTGGCTTTGTA 1980  
QY 121 GTGGACAAAACACCAAAATGGCTACCTCCAAATCCAGGGATTGCTAAGGTGGCACT 180  
Db 1981 GTGGACAAAACACCAAAATGGCTACCTCCAAATCCAGGGATTGCTAAGGTGGCACT 2040  
QY 181 TGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCCCTGACTGTCA 229

Db 2041 TGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCCCTGACTGTCA 2089

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Job time : 122.552 secs

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(without alignments)  
3840.718 Million cell updates/sec

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Perfect score: 432

Sequence: 1 GGCACAGTGTGTCGACAG.....AACCTTGACCTGACTGTCA 229

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Delop 6.0 , Delext 7.0

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Maximum Match 100%

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- 9: /cgn2\_6/prodata/2/pubpaa/US09A\_PUBCOMB.pep.\*
- 10: /cgn2\_6/prodata/2/pubpaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/prodata/2/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/prodata/2/pubpaa/US09\_NEW\_PUB.pep.\*
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- 14: /cgn2\_6/prodata/2/pubpaa/US10B\_PUBCOMB.pep.\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	396	91.7	869	14	US-10-106-698-6388	Sequence 6388, Ap
3	396	91.7	914	9	US-09-823-356-8	Sequence 8, Appli
4	396	91.7	914	9	US-09-922-217-1066	Sequence 1066, Ap
5	396	91.7	914	9	US-09-833-263-1066	Sequence 1066, Ap
6	396	91.7	914	9	US-09-981-353-132	Sequence 192, App
7	396	91.7	914	11	US-09-833-245-2054	Sequence 2054, Ap
8	396	91.7	914	13	US-10-035-380-1066	Sequence 1066, Ap
9	396	91.7	914	14	US-10-055-412B-28	Sequence 28, Appli
10	396	91.7	914	14	US-10-270-595-6	Sequence 6, Appli
11	396	91.7	914	14	US-10-235-994-26	Sequence 26, Appl
12	396	91.7	914	14	US-10-060-255-42	Sequence 42, Appl
13	396	91.7	914	15	US-10-369-214-133	Sequence 133, App
14	396	91.7	925	9	US-09-764-868-635	Sequence 635, App
15	396	91.7	925	14	US-10-106-698-6248	Sequence 6248, Ap
16	319	73.8	913	14	US-10-270-595-2	Sequence 2, Appli
17	319	73.8	913	15	US-10-369-214-132	Sequence 132, App
18	263	60.9	917	9	US-09-981-353-54	Sequence 54, Appl
19	263	60.9	917	13	US-10-085-187-41	Sequence 41, Appl
20	263	60.9	917	14	US-10-235-994-16	Sequence 16, Appl
21	263	60.9	917	14	US-10-345-680-32	Sequence 32, Appl
22	263	60.9	917	15	US-10-369-214-134	Sequence 134, App
23	263	60.9	917	15	US-10-087-080-34	Sequence 34, Appl
24	263	60.9	919	9	US-09-989-722-379	Sequence 379, App
25	263	60.9	919	9	US-09-989-723-379	Sequence 379, App
26	263	60.9	919	9	US-09-989-727-379	Sequence 379, App
27	263	60.9	919	9	US-09-989-727-379	Sequence 379, App
28	263	60.9	919	9	US-09-989-731-379	Sequence 379, App
29	263	60.9	919	9	US-09-989-732-379	Sequence 379, App
30	263	60.9	919	9	US-09-991-073-379	Sequence 379, App
31	263	60.9	919	9	US-09-991-163-379	Sequence 379, App
32	263	60.9	919	9	US-09-991-163-379	Sequence 379, App
33	263	60.9	919	9	US-09-993-604-379	Sequence 379, App
34	263	60.9	919	9	US-09-990-456-379	Sequence 379, App
35	263	60.9	919	9	US-09-989-721-379	Sequence 379, App
36	263	60.9	919	9	US-09-992-598-379	Sequence 379, App
37	263	60.9	919	9	US-09-989-293A-379	Sequence 379, App
38	263	60.9	919	9	US-09-989-735-379	Sequence 379, App
39	263	60.9	919	9	US-09-990-444-379	Sequence 379, App
40	263	60.9	919	9	US-09-991-181-379	Sequence 379, App
41	263	60.9	919	9	US-09-989-730-379	Sequence 379, App
42	263	60.9	919	9	US-09-990-436-379	Sequence 379, App
43	263	60.9	919	9	US-09-993-687-379	Sequence 379, App
44	263	60.9	919	10	US-09-989-734-379	Sequence 379, App
45	263	60.9	919	10	US-09-997-653-379	Sequence 379, App

ALIGNMENTS

RESULT 1

US-10-106-698-4628  
; Sequence 4628, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:

; APPLICANT: Ruben et al.

; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides

; FILE REFERENCE: PA005P1

; CURRENT APPLICATION NUMBER: US/10/106,698

; CURRENT FILING DATE: 2002-03-27

; PRIOR APPLICATION NUMBER: PCT/US00/26524

; PRIOR FILING DATE: 2000-09-28

; PRIOR APPLICATION NUMBER: US 60/157,137

; PRIOR FILING DATE: 1999-09-29

; PRIOR APPLICATION NUMBER: US 60/163,280

; PRIOR FILING DATE: 1999-11-03

; NUMBER OF SEQ IDS: 8564

; SOFTWARE: PatentIn Ver. 3.0

; SEQ ID NO 4628

; LENGTH: 552

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-106-698-4628

Alignment Scores:  
Pred. No.: 8,22e-40 Length: 552  
Score: 396.00 Matches: 76  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 91.67% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-10 (1-229) x US-10-106-698-4628 (1-552)

QY 1 GGCACAGTATCGTGACAGCACCGTGGGAAAGGACACTTTGTTCTTATCACCTGGACA 60  
Db GlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThr 161  
QY 61 AGCAGCCTCCCAAACTCTCTGGGATCCAGTGGACAGCAAGGCTGGCTTGTGA 120  
Db ThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheVal 181  
QY 121 GTGGACAAAACACCAAAATGGCTACCTCCAAATCCAGGATTCCTAAGGTTGGCACT 180  
Db ValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThr 201  
QY 181 TGGAAATACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTC 228  
Db TrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrVal 217

RESULT 2  
US-10-106-698-6388  
; Sequence 6388, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; PRIOR FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 6388  
; LENGTH: 869  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; NAME/KEY: MISC FEATURE  
; LOCATION: (14)\_FEATURE  
; OTHER INFORMATION: xaa equals any of the naturally occurring L-amino acids  
US-10-106-698-6388

Alignment Scores:  
Pred. No.: 8,98e-40 Length: 869  
Score: 396.00 Matches: 76  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 91.67% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-10 (1-229) x US-10-106-698-6388 (1-869)

QY 1 GGCACAGTATCGTGACAGCACCGTGGGAAAGGACACTTTGTTCTTATCACCTGGACA 60  
Db GlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThr 478  
QY 61 AGCAGCCTCCCAAACTCTCTGGGATCCAGTGGACAGCAAGGCTGGCTTGTGA 120  
Db ThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheVal 498  
QY 121 GTGGACAAAACACCAAAATGGCTACCTCCAAATCCAGGATTCCTAAGGTTGGCACT 180

Db 499 ValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThr 518  
QY 181 TGGAAATACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTC 228  
Db 519 TrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrVal 534

RESULT 3  
US-09-823-356-8  
; Sequence 8, Application US/09823356  
; Patent No. US20010025098A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Kaser, Matthew R.  
; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
; FILE REFERENCE: PF-0489-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823,356  
; CURRENT FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/039,307  
; PRIOR FILING DATE: 1998 March 13  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PERL Program  
; SEQ ID NO 8  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775  
US-09-823-356-8

Alignment Scores:  
Pred. No.: 9,06e-40 Length: 914  
Score: 396.00 Matches: 76  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 91.67% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-10 (1-229) x US-09-823-356-8 (1-914)

QY 1 GGCACAGTATCGTGACAGCACCGTGGGAAAGGACACTTTGTTCTTATCACCTGGACA 60  
Db 504 GlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThr 523  
QY 61 AGCAGCCTCCCAAACTCTCTGGGATCCAGTGGACAGCAAGGCTGGCTTGTGA 120  
Db ThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheVal 543  
QY 121 GTGGACAAAACACCAAAATGGCTACCTCCAAATCCAGGATTCCTAAGGTTGGCACT 180  
Db ValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThr 563  
QY 181 TGGAAATACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTC 228  
Db 564 TrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrVal 579

RESULT 4  
US-09-922-217-1066  
; Sequence 1066, Application US/09922217  
; Patent No. US20020076414A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather

```
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; CURRENT FILING DATE: 2001-08-03
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1066
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-922-217-1066

Alignment Scores:
Pred. No.: 9,06e-40 Length: 914
Score: 396.00 Matches: 76
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 91.67%
Indels: 0
Gaps: 0
DB: 9

US-09-049-696-10 (1-229) x US-09-922-217-1066 (1-914)

QY 1 GGCACAGTGCCTGGACAGCACCGTGGGAAAGGACACTTTGTTTCTTATCACCTGGACA 60
Db 504 GlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThr 523
QY 61 AGCAGCCTCCCAAAATCCTTCTCTGGGATCCAGTGGACAGCAAGCAAGTGGCTTTGTA 120
Db 524 ThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheVal 543
QY 121 GTGGACAAAACACCAAAATGCCTACCTCCAAATCCAGGCACTTGAACCTGACTGTC 228
Db 544 ValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThr 563
QY 181 TGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTC 228
Db 564 TrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrVal 579

RESULT 5
US-09-833-263-1066
; Sequence 1066, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Stolk, John A.
; APPLICANT: Meagher, Madeleine J.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; FILE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C12
; CURRENT APPLICATION NUMBER: US/09/833,263
; CURRENT FILING DATE: 2001-04-10
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1066
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-833-263-1066

Alignment Scores:
Pred. No.: 9,06e-40 Length: 914
Score: 396.00 Matches: 76
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```
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 91.67% Indels: 0
DB: 9 Gaps: 0

US-09-049-696-10 (1-229) x US-09-833-263-1066 (1-914)

QY 1 GGCACAGTGCCTGGACAGCACCGTGGGAAAGGACACTTTGTTTCTTATCACCTGGACA 60
Db 504 GlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThr 523
QY 61 AGCAGCCTCCCAAAATCCTTCTCTGGGATCCAGTGGACAGCAAGCAAGTGGCTTTGTA 120
Db 524 ThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheVal 543
QY 121 GTGGACAAAACACCAAAATGCCTACCTCCAAATCCAGGCACTTGAACCTGACTGTC 228
Db 544 ValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThr 563
QY 181 TGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTC 228
Db 564 TrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrVal 579

RESULT 6
US-09-981-353-192
; Sequence 192, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
; APPLICANT: Lasek, Amy W.
; APPLICANT: Jones, David A.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US
; CURRENT APPLICATION NUMBER: US/09/981,353
; CURRENT FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO 192
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CD1
US-09-981-353-192

Alignment Scores:
Pred. No.: 9,06e-40 Length: 914
Score: 396.00 Matches: 76
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 91.67%
DB: 9 Indels: 0
Gaps: 0

US-09-049-696-10 (1-229) x US-09-981-353-192 (1-914)

QY 1 GGCACAGTGCCTGGACAGCACCGTGGGAAAGGACACTTTGTTTCTTATCACCTGGACA 60
Db 504 GlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThr 523
QY 61 AGCAGCCTCCCAAAATCCTTCTCTGGGATCCAGTGGACAGCAAGCAAGTGGCTTTGTA 120
Db 524 ThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheVal 543
QY 121 GTGGACAAAACACCAAAATGCCTACCTCCAAATCCAGGCACTTGAACCTGACTGTC 228
Db 544 ValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThr 563
QY 181 TGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTC 228
Db 564 TrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrVal 579

RESULT 7
US-09-833-245-2054
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; Sequence 2054, Application US/09833245  
; Publication No. US2004010134A1  
; GENERAL INFORMATION:  
; APPLICANT: Human Genome Sciences, Inc.  
; TITLE OF INVENTION: Albumin Fusion Proteins  
; FILE REFERENCE: PF546PCT  
; CURRENT APPLICATION NUMBER: US/09/833,245  
; CURRENT FILING DATE: 2001-04-12  
; PRIOR APPLICATION NUMBER: 60/229, 358  
; PRIOR FILING DATE: 2000-04-12  
; PRIOR APPLICATION NUMBER: 60/256, 931  
; PRIOR FILING DATE: 2000-12-21  
; PRIOR APPLICATION NUMBER: 60/199, 384  
; PRIOR FILING DATE: 2000-04-25  
; NUMBER OF SEQ ID NOS: 2267  
; SOFTWARE: Patent In Ver. 2.1  
; SEQ ID NO 2054  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-833-245-2054

Alignment Scores:  
Pred. No.: 9,066-40 Length: 914  
Score: 396.00 Matches: 76  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 91.67% Indels: 0  
DB: 11 Gaps: 0

US-09-049-696-10 (1-229) x US-09-833-245-2054 (1-914)

QY 1 GGCACAGTATCGTGGACAGCCGCGGAAAGGACACTTTCTTATCACCTGGACA 60  
DB 504 GlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThr 523

QY 61 AGCGAGCTCCCAAAATCCTTCTCTGGGATCCAGTGGACAGCAAGCGTGGCTTTGTA 120  
DB 524 ThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheVal 543

QY 121 GTGGACAAAACACCAAAATGCGCTACCTCCAAATCCAGGATTCCTAAGGTTGGCACT 180  
DB 544 ValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThr 563

QY 181 TGGAAATACAGTCTGCAAGCAGCTCACAACTTGACCTGACTGTC 228  
DB 564 TrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrVal 579

RESULT 8  
US-10-025-380-1066  
; Sequence 1066, Application US/10025380  
; Publication No. US20020182191A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Yugu  
; APPLICANT: Smith, Carole L.  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Skeiky, Yasir A. W.  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Vedvick, Thomas S.  
; APPLICANT: Carter, Darick  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; FILE REFERENCE: 210121.471C14  
; CURRENT APPLICATION NUMBER: US/10/025,380

; CURRENT FILING DATE: 2001-12-19  
; NUMBER OF SEQ ID NOS: 1129  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1066  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-025-380-1066

Alignment Scores:  
Pred. No.: 9,066-40 Length: 914  
Score: 396.00 Matches: 76  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 91.67% Indels: 0  
DB: 13 Gaps: 0

US-09-049-696-10 (1-229) x US-10-025-380-1066 (1-914)

QY 1 GGCACAGTATCGTGGACAGCCGCGGAAAGGACACTTTCTTATCACCTGGACA 60  
DB 504 GlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThr 523

QY 61 AGCGAGCTCCCAAAATCCTTCTCTGGGATCCAGTGGACAGCAAGCGTGGCTTTGTA 120  
DB 524 ThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheVal 543

QY 121 GTGGACAAAACACCAAAATGCGCTACCTCCAAATCCAGGATTCCTAAGGTTGGCACT 180  
DB 544 ValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThr 563

QY 181 TGGAAATACAGTCTGCAAGCAGCTCACAACTTGACCTGACTGTC 228  
DB 564 TrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrVal 579

RESULT 9  
US-10-055-412B-28  
; Sequence 28, Application US/10055412B  
; Publication No. US20030059861A1  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedict U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 28  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-055-412B-28

Alignment Scores:  
Pred. No.: 9,066-40 Length: 914  
Score: 396.00 Matches: 76  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 91.67% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-10 (1-229) x US-10-055-412B-28 (1-914)

QY 1 GGCACAGTATCGTGGACAGCCGCGGAAAGGACACTTTCTTATCACCTGGACA 60  
DB 504 GlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThr 523

QY 61 AGCGAGCTCCCAAAATCCTTCTCTGGGATCCAGTGGACAGCAAGCGTGGCTTTGTA 120



Db 524 ThrGlnProProGlnLeuLeuTrpAspProSerGlyGlnIysGlnGlyPheVal 543  
QY 121 GTGCAAAAACCAAAATGGCTACCTCAAATCCAGGCATTGCTAAGGTTGGCACT 180  
Db 544 ValAspLysAsnThrLysMetAlaTyLeuGlnIleProGlyIleAlaLysValGlyThr 563  
QY 181 TGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTC 228  
Db 564 TrpLysTySerLeuGlnAlaSerSerGlnThrLeuThrLeuThrVal 579  
RESULT 10  
US-10-270-595-6  
; Sequence 6, Application US/10270595  
; Publication No. US20030078409A1  
; GENERAL INFORMATION:  
; APPLICANT: Megalin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; CURRENT FILING DATE: 2002-10-16  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-270-595-6  
Alignment Scores:  
Pred. No.: 9,06e-40 Length: 914  
Score: 396.00 Matches: 76  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 91.67% Indels: 0  
DB: 14 Gaps: 0  
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QY 1 GGCACAGTGCCTGGACAGCACCGTGGGAAAGGACACTTTGTTCTTATCACCTGGACA 60  
Db 504 GlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThr 523  
QY 61 AGCAGCCTCCCAAAATCCTCTCTGGATCCAGTGGACAGCAAGCAAGTGGCTTTGTA 120  
Db 524 ThrGlnProProGlnLeuLeuTrpAspProSerGlyGlnIysGlnGlyPheVal 543  
QY 121 GTGCAAAAACCAAAATGGCTACCTCAAATCCAGGCATTGCTAAGGTTGGCACT 180  
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RESULT 12  
US-10-060-255-42  
; Sequence 42, Application US/10060255  
; Publication No. US20030113840A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 25 Human secreted proteins  
; FILE REFERENCE: P2042P1  
; CURRENT APPLICATION NUMBER: US/10/060,255  
; CURRENT FILING DATE: 2002-02-01  
; PRIOR APPLICATION NUMBER: 09/781,417  
; PRIOR FILING DATE: 2001-02-13  
; PRIOR APPLICATION NUMBER: PCT/US00/22325  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: 60/149,182  
; PRIOR FILING DATE: 1999-08-17  
; NUMBER OF SEQ ID NOS: 86  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 42  
; LENGTH: 914

QY 181 TGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTC 228  
Db 564 TrpLysTySerLeuGlnAlaSerSerGlnThrLeuThrLeuThrVal 579  
RESULT 11  
US-10-235-994-26  
; Sequence 26, Application US/10235994  
; Publication No. US20030101002A1  
; GENERAL INFORMATION:  
; APPLICANT: Bartha, Gabor  
; APPLICANT: Walker, Michael  
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS  
; FILE REFERENCE: ICYTP012  
; CURRENT APPLICATION NUMBER: US/10/235,994  
; CURRENT FILING DATE: 2002-09-04  
; PRIOR APPLICATION NUMBER: US/10/003,608  
; PRIOR FILING DATE: 2001-11-01  
; PRIOR APPLICATION NUMBER: 60/245,081  
; PRIOR FILING DATE: 2000-11-01  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 26  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Human  
US-10-235-994-26  
Alignment Scores:  
Pred. No.: 9,06e-40 Length: 914  
Score: 396.00 Matches: 76  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 91.67% Indels: 0  
DB: 14 Gaps: 0  
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QY 1 GGCACAGTGCCTGGACAGCACCGTGGGAAAGGACACTTTGTTCTTATCACCTGGACA 60  
Db 504 GlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThr 523  
QY 61 AGCAGCCTCCCAAAATCCTCTCTGGATCCAGTGGACAGCAAGCAAGTGGCTTTGTA 120  
Db 524 ThrGlnProProGlnLeuLeuTrpAspProSerGlyGlnIysGlnGlyPheVal 543  
QY 121 GTGCAAAAACCAAAATGGCTACCTCAAATCCAGGCATTGCTAAGGTTGGCACT 180  
Db 544 ValAspLysAsnThrLysMetAlaTyLeuGlnIleProGlyIleAlaLysValGlyThr 563  
RESULT 12  
US-10-060-255-42  
; Sequence 42, Application US/10060255  
; Publication No. US20030113840A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 25 Human secreted proteins  
; FILE REFERENCE: P2042P1  
; CURRENT APPLICATION NUMBER: US/10/060,255  
; CURRENT FILING DATE: 2002-02-01  
; PRIOR APPLICATION NUMBER: 09/781,417  
; PRIOR FILING DATE: 2001-02-13  
; PRIOR APPLICATION NUMBER: PCT/US00/22325  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: 60/149,182  
; PRIOR FILING DATE: 1999-08-17  
; NUMBER OF SEQ ID NOS: 86  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 42  
; LENGTH: 914

TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-060-255-42

## Alignment Scores:

Pred. No.: 9,06e-40 Length: 914  
Score: 396.00 Matches: 76  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 91.67% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-10 (1-229) x US-10-060-255-42 (1-914)

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DB 504 GlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThr 523  
QY 61 AGCAGCCTCCCAAAATCCTTCTCTGGGATCCAGTGGACAGCAAGCAAGTGGCTTTGTA 120  
DB 524 ThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyGlyPheVal 543  
QY 121 GTGGACAAAACACCAAAATGGCTTACCTCCAAATCCAGGATTCCTAAGGTTGGCACT 180  
DB 544 ValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThr 563  
QY 181 TGGAAATACAGTCTGCAGCAAGCTCACAAACCTTGACCTGACTGTC 228  
DB 564 TrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrVal 579

## RESULT 13

US-10-369-214-133

Sequence 133, Application US/10369214  
Publication No. US2003023037A1  
GENERAL INFORMATION:  
APPLICANT: Groot, Pieter C.  
APPLICANT: Bergenhegouwen van, Bram J.  
APPLICANT: Oosterhout van, Antoon J.M.  
TITLE OF INVENTION: Genes involved in immune related responses observed  
TITLE OF INVENTION: with asthma  
FILE REFERENCE: P53837US00  
CURRENT APPLICATION NUMBER: US/10/369,214  
CURRENT FILING DATE: 2003-02-15  
PRIOR APPLICATION NUMBER: EP 00202867.8  
PRIOR FILING DATE: 2000-08-16  
PRIOR APPLICATION NUMBER: PCT/NL01/00610  
PRIOR FILING DATE: 2001-08-16  
NUMBER OF SEQ ID NOS: 139  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 133  
LENGTH: 914  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
LOCATION: (1)..(914)  
OTHER INFORMATION: /note="Human CLCA1"

## Alignment Scores:

Pred. No.: 9,06e-40 Length: 914  
Score: 396.00 Matches: 76  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
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US-09-049-696-10 (1-229) x US-10-369-214-133 (1-914)

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QY 61 AGCAGCCTCCCAAAATCCTTCTCTGGGATCCAGTGGACAGCAAGGTTGGCTTTGTA 120  
DB 524 ThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyGlyPheVal 543  
QY 121 GTGGACAAAACACCAAAATGGCTTACCTCCAAATCCAGGATTCCTAAGGTTGGCACT 180  
DB 544 ValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThr 563  
QY 181 TGGAAATACAGTCTGCAGCAAGCTCACAAACCTTGACCTGACTGTC 228  
DB 564 TrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrVal 579

## RESULT 14

US-09-764-868-635

Sequence 635, Application US/09764868  
Patent No. US2002018871A1  
GENERAL INFORMATION:  
APPLICANT: Rosen et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
FILE REFERENCE: PT232  
CURRENT APPLICATION NUMBER: US/09/764,868  
CURRENT FILING DATE: 2001-01-17  
Prior application data removed - refer to PALM or file wrapper  
NUMBER OF SEQ ID NOS: 1510  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 635  
LENGTH: 925  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-764-868-635

## Alignment Scores:

Pred. No.: 9,09e-40 Length: 925  
Score: 396.00 Matches: 76  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 91.67% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-10 (1-229) x US-09-764-868-635 (1-925)

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QY 61 AGCAGCCTCCCAAAATCCTTCTCTGGGATCCAGTGGACAGCAAGGTTGGCTTTGTA 120  
DB 535 ThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyGlyPheVal 554  
QY 121 GTGGACAAAACACCAAAATGGCTTACCTCCAAATCCAGGATTCCTAAGGTTGGCACT 180  
DB 555 ValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThr 574  
QY 181 TGGAAATACAGTCTGCAGCAAGCTCACAAACCTTGACCTGACTGTC 228  
DB 575 TrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrVal 590

## RESULT 15

US-10-106-698-6248

Sequence 6248, Application US/10106698  
Publication No. US20030109690A1  
GENERAL INFORMATION:  
APPLICANT: Ruben et al.  
TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
FILE REFERENCE: P0005PI  
CURRENT APPLICATION NUMBER: US/10/106,698  
CURRENT FILING DATE: 2002-03-27  
PRIOR APPLICATION NUMBER: PCT/US00/26524  
PRIOR FILING DATE: 2000-09-28  
PRIOR APPLICATION NUMBER: US 60/157,137  
PRIOR FILING DATE: 1999-09-29  
PRIOR APPLICATION NUMBER: US 60/163,280  
PRIOR FILING DATE: 1999-11-03

; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 6248  
; LENGTH: 925  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-106-698-6248

Alignment Scores:  
Pred. No.: 9.09e-40 Length: 925  
Score: 396.00 Matches: 76  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 91.67% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-10 (1-229) x US-10-106-698-6248 (1-925)

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QY	61	ACGCAGCCTCCCAAAATCCTTCTCGGATCCCGATGGACAGCAAGCAAGTGGCTTTGTA	120
DB	535	ThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheVal	554
QY	121	GTGGACAAAACACCAAAATGGCTACCTCCAAATCCAGGCATTGCTAAGGTTGGCACT	180
DB	555	ValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThr	574
QY	181	TGGAATACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTC	228
DB	575	TrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrVal	590

Search completed: April 21, 2004, 16:39:03  
Job time : 35.9693 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 24, 2004, 00:33:00 ; Search time 21.0497 Seconds  
(without alignments)  
6037.311 Million cell updates/sec

Title: US-09-049-696-10

Perfect score: 229

Sequence: 1 GCACAGTATCGTGACAG.....AACCTTGACCTGACTGTCA 229

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA.\*

- 1: /cgn2.6/prodata/2/ina/5A COMB.seq.\*
- 2: /cgn2.6/prodata/2/ina/5B COMB.seq.\*
- 3: /cgn2.6/prodata/2/ina/6A COMB.seq.\*
- 4: /cgn2.6/prodata/2/ina/6B COMB.seq.\*
- 5: /cgn2.6/prodata/2/ina/PCUS COMB.seq.\*
- 6: /cgn2.6/prodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	229	100.0	2745	4	US-09-823-624-5
3	229	100.0	3007	4	US-09-193-562D-27
4	161.8	70.7	2931	4	US-09-623-624-1
5	107.4	46.9	3043	4	US-09-049-698-16
6	107.4	46.9	3181	4	US-09-049-698-18
7	100	43.7	201	4	US-09-049-698-6
8	63.8	27.9	3317	4	US-09-193-562D-1
9	53.6	23.4	3022	4	US-09-193-562D-33
10	52.6	23.0	3418	4	US-09-193-562D-29
11	34.2	14.9	590	4	US-09-643-597-132
12	34.2	14.9	590	4	US-09-480-884A-132
13	34.2	14.9	590	4	US-09-542-615A-132
14	34.2	14.9	590	4	US-09-606-421B-132
15	34.2	14.9	590	4	US-09-221-107-132
16	34.2	14.9	2773	4	US-09-643-597-358
17	34.2	14.9	2784	4	US-09-643-597-168
18	34.2	14.9	2784	4	US-09-480-884A-168
19	34.2	14.9	2784	4	US-09-542-615A-168
20	34.2	14.9	2784	4	US-09-606-421B-168
21	34.2	14.9	2970	4	US-09-193-562D-31
22	34.2	14.9	3156	4	US-09-919-172-86
23	34.2	14.9	3190	4	US-09-623-624-3
24	34.2	14.9	3362	4	US-09-643-597-167
25	34.2	14.9	3362	4	US-09-480-884A-167
26	34.2	14.9	3362	4	US-09-542-615A-167
27	34.2	14.9	3362	4	US-09-606-421B-167

28	34.2	14.9	3951	4	US-09-643-597-160	Sequence 160, App
29	34.2	14.9	3951	4	US-09-480-884A-160	Sequence 160, App
30	34.2	14.9	3951	4	US-09-542-615A-160	Sequence 160, App
31	34.2	14.9	3951	4	US-09-606-421B-160	Sequence 160, App
32	34.2	14.9	3951	4	US-09-221-107-160	Sequence 160, App
33	34.2	14.9	8031	4	US-09-643-597-254	Sequence 254, App
34	34.2	14.9	8031	4	US-09-480-884A-254	Sequence 254, App
35	34.2	14.9	8031	4	US-09-542-615A-254	Sequence 254, App
36	34.2	14.9	8031	4	US-09-606-421B-254	Sequence 254, App
37	31.6	13.8	4771	3	US-08-840-062-3	Sequence 3, Appli
38	31.2	13.6	2313	4	US-09-107-532A-734	Sequence 734, App
39	30.6	13.4	161852	4	US-09-497-855A-40	Sequence 40, Appli
40	29.8	13.0	31208	4	US-09-852-067-3	Sequence 3, Appli
C 41	29.6	12.9	1437	6	5187077-16	Patent No. 5187077
C 42	29.6	12.9	1437	6	5427925-14	Patent No. 5427925
43	29.4	12.8	553	4	US-09-621-976-9411	Sequence 9411, Ap
44	29	12.7	1117	4	US-09-552-225A-11	Sequence 11, Appl
45	29	12.7	1123	3	US-09-188-930-28	Sequence 28, Appl

ALIGNMENTS

RESULT 1  
US-09-016-434-850  
; Sequence 850, Application US/09016434  
; Patent No. 6500938  
; GENERAL INFORMATION:  
; APPLICANT: Janice Au-Young  
; APPLICANT: Jeffrey J. Seilhamer  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION  
; NUMBER OF SEQUENCES: 1490  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/016,434  
; FILING DATE: HEREWITH  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Zeller, Karen J.  
; REGISTRATION NUMBER: 37,071  
; REFERENCE/DOCKET NUMBER: PA-0002 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (650) 855-0555  
; TELEFAX: (650) 845-4166  
; INFORMATION FOR SEQ ID NO: 850:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1512 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: COLNNOT01  
; CLONE: 608819  
; US-09-016-434-850

Query Match 100.0%; Score 229; DB 4; Length 1512;  
Best Local Similarity 100.0%; Pred. No. 1.9e-73;



RESULT 5  
US-09-049-698-16  
; Sequence 16, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITTS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLASS, MICHAEL R.  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; TITLE OF INVENTION: TRACT  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park  
; STATE: IL

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RESULT 6
US-09-049-698-18
; Sequence 18, Application US/09049698
; Patent No. 6368792
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA A.
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: HAYDEN, MARK
; APPLICANT: KLASS, MICHAEL R.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METH
; TITLE OF INVENTION: USEFUL FOR DETECT
; TITLE OF INVENTION: TRACT
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park

```







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Db      321 CACAGTGACTGGGATAAATACTGTGGGCAACGACACATATGTTTCTAGTTACGTGG 375

RESULT 12
US-09-480-884A-132
; Sequence 132, Application US/09480884A
; Patent No. 6482597
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Hosken, Nancy A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455C6
; CURRENT APPLICATION NUMBER: US/09/480,884A
; CURRENT FILING DATE: 2001-08-27
; NUMBER OF SEQ ID NOS: 330
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 132
; LENGTH: 590
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-480-884A-132

Query Match      14.9%; Score 34.2; DB 4; Length 590;
Best Local Similarity 76.4%; Pred. No. 0.014;
Matches 42; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY      3 CACAGTGATCGTGGACAGCACCGTGGGAAAGGACACTTTGTTTCTTATCACCTGG 57
Db      321 CACAGTGACTGGGATAAATACTGTGGGCAACGACACATATGTTTCTAGTTACGTGG 375

RESULT 13
US-09-542-615A-132
; Sequence 132, Application US/09542615A
; Patent No. 6518256
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy A.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455C8
; CURRENT APPLICATION NUMBER: US/09/542,615A
; CURRENT FILING DATE: 2000-04-14
; NUMBER OF SEQ ID NOS: 350
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 132
; LENGTH: 590
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-542-615A-132

Query Match      14.9%; Score 34.2; DB 4; Length 590;
Best Local Similarity 76.4%; Pred. No. 0.014;
Matches 42; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY      3 CACAGTGATCGTGGACAGCACCGTGGGAAAGGACACTTTGTTTCTTATCACCTGG 57
Db      321 CACAGTGACTGGGATAAATACTGTGGGCAACGACACATATGTTTCTAGTTACGTGG 375

RESULT 14
US-09-606-421B-132
; Sequence 132, Application US/09606421B
; Patent No. 6531315
; GENERAL INFORMATION:
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; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455C9
; CURRENT APPLICATION NUMBER: US/09/606,421B
; CURRENT FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 358
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 132
; LENGTH: 590
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-606-421B-132

Query Match      14.9%; Score 34.2; DB 4; Length 590;
Best Local Similarity 76.4%; Pred. No. 0.014;
Matches 42; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY      3 CACAGTGATCGTGGACAGCACCGTGGGAAAGGACACTTTGTTTCTTATCACCTGG 57
Db      321 CACAGTGACTGGGATAAATACTGTGGGCAACGACACATATGTTTCTAGTTACGTGG 375

RESULT 15
US-09-221-107-132
; Sequence 132, Application US/09221107
; Patent No. 6660838
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY OF LUNG CANCER
; FILE REFERENCE: 210121.455C2
; CURRENT APPLICATION NUMBER: US/09/221,107
; CURRENT FILING DATE: 1998-12-22
; NUMBER OF SEQ ID NOS: 161
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 132
; LENGTH: 590
; TYPE: DNA
; ORGANISM: Human
US-09-221-107-132

Query Match      14.9%; Score 34.2; DB 4; Length 590;
Best Local Similarity 76.4%; Pred. No. 0.014;
Matches 42; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY      3 CACAGTGATCGTGGACAGCACCGTGGGAAAGGACACTTTGTTTCTTATCACCTGG 57
Db      321 CACAGTGACTGGGATAAATACTGTGGGCAACGACACATATGTTTCTAGTTACGTGG 375

Search completed: April 24, 2004, 05:01:06
Job time : 22.0497 secs
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GenCore version 5.1.6  
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OM nucleic - protein search, using frame\_plus\_n2p model

Run on: April 21, 2004, 16:13:29 ; Search time 11.6857 Seconds  
(without alignments)  
2023.381 Million cell updates/sec

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Perfect score: 432  
Sequence: 1 GGACAGTGCCTGGACAG.....AACCTTGACCTGACTGTCA 229

Scoring table: BLOSUM62  
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Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 778828

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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-DB=Issued\_Patents\_AA -QFMT=fastan -SUFFIX=n2p.ra -MINMATCH=0.1 -LOOPCL=0  
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi  
-LIST=45 -DOCALLIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15  
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-USER=US09049696 @CGN 1.1 321 @runat\_21042004\_154838\_21255 -NCPU=6 -ICPU=3  
-NO WMAP -LARGEQUERY -NEG\_SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG  
-DSV\_TIMEOUT=120 -WARN\_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued Patents AA:\*  
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4: /cgn2\_6/ptodata/2/iaa/6B\_COMB.pep.\*  
5: /cgn2\_6/ptodata/2/iaa/PTCUS\_COMB.pep.\*  
6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	396	91.7	914	4	US-09-193-562D-28
2	396	91.7	914	4	US-09-623-624-6
3	319	73.8	913	4	US-09-623-624-2
4	263	60.9	917	4	US-09-049-698-41
5	219	50.7	795	4	US-09-193-562D-11
6	219	50.7	821	4	US-09-193-562D-12
7	219	50.7	905	4	US-09-193-562D-2
8	205	47.5	903	4	US-09-193-562D-46
9	205	47.5	903	4	US-09-623-624-18
10	190	44.0	902	4	US-09-193-562D-34
11	179	41.4	1000	4	US-09-193-562D-30
12	171	39.6	791	4	US-09-643-597-170

13	171	39.6	791	4	US-09-480-884A-170	Sequence 170, App
14	171	39.6	791	4	US-09-542-615A-170	Sequence 170, App
15	171	39.6	791	4	US-09-606-421B-170	Sequence 170, App
16	171	39.6	920	4	US-09-643-597-357	Sequence 357, Appl
17	171	39.6	942	4	US-09-919-172-87	Sequence 87, Appl
18	171	39.6	943	4	US-09-643-597-161	Sequence 161, App
19	171	39.6	943	4	US-09-480-884A-161	Sequence 161, App
20	171	39.6	943	4	US-09-542-615A-161	Sequence 161, App
21	171	39.6	943	4	US-09-606-421B-161	Sequence 161, App
22	171	39.6	943	4	US-09-623-624-4	Sequence 4, Appli
23	171	39.6	943	4	US-09-221-107-161	Sequence 161, App
24	167.5	38.8	592	4	US-09-643-597-169	Sequence 169, App
25	167.5	38.8	592	4	US-09-480-884A-169	Sequence 169, App
26	167.5	38.8	592	4	US-09-542-615A-169	Sequence 169, App
27	167.5	38.8	592	4	US-09-606-421B-169	Sequence 169, App
28	162	37.5	943	4	US-09-193-562D-32	Sequence 32, Appl
29	89	20.6	24	4	US-09-623-624-16	Sequence 16, Appl
30	70.5	16.3	123	4	US-09-673-395A-608	Sequence 608, App
31	67.5	15.6	176	4	US-09-252-991A-25290	Sequence 25290, A
32	67	15.5	241	1	US-08-235-838-11	Sequence 11, Appl
33	67	15.5	241	2	US-08-465-473B-11	Sequence 11, Appl
34	67	15.5	473	4	US-09-252-991A-24922	Sequence 24922, A
35	67	15.5	637	1	US-08-235-838-16	Sequence 16, Appl
36	67	15.5	637	2	US-08-465-473B-16	Sequence 16, Appl
37	67	15.8	2321	4	US-09-230-652-2	Sequence 2, Appli
38	66	15.3	635	4	US-08-506-296B-71	Sequence 71, Appl
39	66	15.3	658	4	US-09-543-681A-5984	Sequence 5984, Ap
40	65.5	15.2	219	4	US-09-252-991A-22521	Sequence 22521, A
41	65	15.0	119	2	US-08-800-198-2	Sequence 2, Appli
42	65	15.0	119	3	US-09-296-595-2	Sequence 2, Appli
43	65	15.0	240	3	US-08-800-198-8	Sequence 8, Appli
44	65	15.0	240	3	US-09-296-595-8	Sequence 8, Appli
45	65	15.0	503	2	US-08-724-281-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1  
US-09-193-562D-28  
; Sequence 28, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 28  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-193-562D-28

Alignment Scores:  
Pred. No.: 1.12e-40 Length: 914  
Score: 396.00 Matches: 76  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 91.67% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-10 (1-228) x US-09-193-562D-28 (1-914)

QY	1	GGCACAGTGCCTGGACAGCCGCGGGAAGGACCTTTGTTCTTATCACCTGCACA	60
DB	504	GlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThr	523
QY	61	AGCGACGCTCCCAAAATCCTTCTCGGATCCCAAGTGGACAGCAAGCGTGGCTTTGTA	120



QY 181 TCGAATACAGTCTGCAACAGCTCACAACCTTGACCTGACTGTC 228  
Db 565 TrpLysTySerIleGlnAlaSerSerGlnThrLeuThrVal 580

RESULT 4  
US-09-049-698-41  
; Sequence 41, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITTS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLASS, MICHAEL R.  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; TITLE OF INVENTION: TRACT  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park  
; STATE: IL  
; COUNTRY: USA  
; ZIP: 60064-3500  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/049,698  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/828,856  
; FILING DATE: 31-MAR-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Becker, Cheryl L.  
; REGISTRATION NUMBER: 35,441  
; REFERENCE/DOCKET NUMBER: 6068.US.P1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 847/935-1729  
; TELEFAX: 847/938-2623  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 41:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 917 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: No. 6368792e  
US-09-049-698-41

Alignment Scores:  
Pred. No.: 3.65e-24 Length: 917  
Score: 263.00 Matches: 51  
Percent Similarity: 75.32% Conservative: 7  
Best Local Similarity: 66.23% Mismatches: 17  
Query Match: 60.88% Indels: 2  
DB: 4 Gaps: 1

US-09-049-696-10 (1-229) x US-09-049-698-41 (1-917)  
QY 4 ACAGTACGTGTCAGCAGCCGTCGGAAGGACACTTTGTTCTTATCACCTGGACAACG 63  
Db 506 ThrValIleAlaSerThrValGlyLysAspThrPhePheLeuLeuThrIleThrVal 525

QY 64 CAGCCTCCCAAAATCCTTCTCTGGGATCCCGAGTGAGCAGCAAGGTCGCTTTGTAGTG 123

Db 526 LeuProSerIleSerLeuTrpAspProSerGlyThrIleMetGluAsnPheThrVal 545  
QY 124 GACAAAAACACAAAATGGCTTACCTCCAAAATCCAGGACCTTGGCACTTGG 183  
Db 546 AspAlaThrSerLysMetAlaTyLeuSerIleProGlyThrAlaLysValGlyThrTrp 565  
QY 184 AAATACAGTCTGCAAGCAAGCTCA-----CAAACCTTGACCTGACTGTC 228  
Db 566 AlaTyAsnLeuGlnAlaLysAlaAsnProGluThrLeuThrIleThrVal 582

RESULT 5  
US-09-193-562D-11  
; Sequence 11, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 11  
; LENGTH: 795  
; TYPE: PRT  
; ORGANISM: Unknown  
; FEATURE:  
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells  
US-09-193-562D-11

Alignment Scores:  
Pred. No.: 1.02e-18 Length: 795  
Score: 219.00 Matches: 49  
Percent Similarity: 69.51% Conservative: 8  
Best Local Similarity: 59.76% Mismatches: 19  
Query Match: 50.69% Indels: 6  
DB: 4 Gaps: 3

US-09-049-696-10 (1-229) x US-09-193-562D-11 (1-795)  
QY 1 GCACAGTGTATCTGGACAGCACCGTCGGAAGGACACTTTGTTCTTATCACCTGGACA 60  
Db 506 GlyThrValProValAspSerThrValGlyAsnAspThrPhePheValValThrTrpThr 525  
QY 61 ACGCAGCCTCCCAAAATCCTTCTCTGGGATCCCGAGTGAGCAG-----AAGCAAGTGGC 114  
Db 526 IleGlnLysProGluIleValLeuGlnAspProLysGlyLysLysTyLysThrSerAsp 545  
QY 115 TTTGTAGTGGACAAA---AACACCAAAATGGCTTACCTCCAAATCCAGGACCTTGTAAAG 171  
Db 546 PheLysGluAspLysLeuAsnIleArgSerAlaArgLeuGlnIleProGlyIleAlaGlu 565  
QY 172 GTTGGCACTTGGAAATACAGTCTG-----CAAGCAAGCTCACAACCTTGACCTG 222  
Db 566 ThrGlyThrTrpThrTySerLeuLeuAsnHisAlaSerSerGlnMetLeuThrVal 585

QY 223 ACTGTC 228  
Db 586 ThrVal 587  
RESULT 6  
US-09-193-562D-12  
; Sequence 12, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D

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; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 12
; LENGTH: 821
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-12

Alignment Scores:
Pred. No.:      1,03e-18      Length:      821
Score:          219.00      Matches:      49
Percent Similarity: 69.51%      Conservative: 8
Best Local Similarity: 59.76%      Mismatches: 19
Query Match:      50.69%      Indels:      6
DB:              4          Gaps:      3

US-09-049-696-10 (1-229) x US-09-193-562D-12 (1-821)

QY 1 GGCACAGTGCATCGTGACAGCACCGCTGGGAAAGGACACTTTGTTCTTATCACCTGGACA 60
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Db 506 GlyThrValProValAspSerThrValGlyAsnAspThrPhePheValValThrTrpThr 525

QY 61 AGCAGCCTCCCAAAATCCTTCTCTGGGATCCAGTGACAG-----AAGCAAGTGGC 114
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 526 IleGlnLysProGluIleValLeuGlnAspProLysGlyLysTyLysThrSerAsp 545

QY 115 TTTGTAGTGGACAAA---AACACCAAAATGGCTACCTCCAAATCCAGGCATTGCTAAG 171
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 546 PheLysGluAspLysLeuAsnIleArgSerAlaArgLeuGlnIleProGlyIleAlaGlu 565

QY 172 GTTGGCACTTGGAAATACAGTCTG-----CAAGCAAGCTCACAACCTTGACCCCTG 222
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 566 ThrGlyThrTrpThrTySerLeuLeuAsnAsnHisAlaSerSerGlnMetLeuThrVal 585

QY 223 ACTGTC 228
   |||||
Db 586 ThrVal 587

RESULT 8
US-09-193-562D-46
; Sequence 46, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 46
; LENGTH: 903
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Calcium sensitive chloride channel from bovine tracheal
; OTHER INFORMATION: epithelium (Cunningham et al., 1995, J. Biol Chem., 270:31016-
US-09-193-562D-46

Alignment Scores:
Pred. No.:      5.77e-17      Length:      903
Score:          205.00      Matches:      46
Percent Similarity: 67.07%      Conservative: 9
Best Local Similarity: 56.10%      Mismatches: 21
Query Match:      47.45%      Indels:      6
DB:              4          Gaps:      3

US-09-049-696-10 (1-229) x US-09-193-562D-46 (1-903)

QY 1 GGCACAGTGCATCGTGACAGCACCGCTGGGAAAGGACACTTTGTTCTTATCACCTGGACA 60
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 505 GlyThrValProValAspSerThrIleGlyAsnAspThrPhePheValValThrTrpThr 524

QY 61 AGCAGCCTCCCAAAATCCTTCTCTGGGATCCAGTGACAG-----AAGCAAGTGGC 114
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 525 IleLysLysProGluIleLeuLeuGlnAspProLysGlyLysTyLysThrSerAsp 544

QY 115 TTTGTAGTGGACAAA---AACACCAAAATGGCTACCTCCAAATCCAGGCATTGCTAAG 171
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 545 PheLysGluAspLysLeuAsnIleHisSerAlaArgLeuArgIleProGlyIleAlaGlu 564

QY 172 GTTGGCACTTGGAAATACAGTCTG-----CAAGCAAGCTCACAACCTTGACCCCTG 222
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 565 ThrGlyThrTrpThrTySerLeuLeuAsnAsnHisAlaSerProGlnIleLeuThrVal 584

QY 223 ACTGTC 228
   |||||
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; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 12
; LENGTH: 821
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-12

Alignment Scores:
Pred. No.:      1,03e-18      Length:      821
Score:          219.00      Matches:      49
Percent Similarity: 69.51%      Conservative: 8
Best Local Similarity: 59.76%      Mismatches: 19
Query Match:      50.69%      Indels:      6
DB:              4          Gaps:      3

US-09-049-696-10 (1-229) x US-09-193-562D-12 (1-821)

QY 1 GGCACAGTGCATCGTGACAGCACCGCTGGGAAAGGACACTTTGTTCTTATCACCTGGACA 60
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 506 GlyThrValProValAspSerThrValGlyAsnAspThrPhePheValValThrTrpThr 525

QY 61 AGCAGCCTCCCAAAATCCTTCTCTGGGATCCAGTGACAG-----AAGCAAGTGGC 114
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 526 IleGlnLysProGluIleValLeuGlnAspProLysGlyLysTyLysThrSerAsp 545

QY 115 TTTGTAGTGGACAAA---AACACCAAAATGGCTACCTCCAAATCCAGGCATTGCTAAG 171
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 546 PheLysGluAspLysLeuAsnIleArgSerAlaArgLeuGlnIleProGlyIleAlaGlu 565

QY 172 GTTGGCACTTGGAAATACAGTCTG-----CAAGCAAGCTCACAACCTTGACCCCTG 222
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 566 ThrGlyThrTrpThrTySerLeuLeuAsnAsnHisAlaSerSerGlnMetLeuThrVal 585

QY 223 ACTGTC 228
   |||||
Db 586 ThrVal 587

RESULT 7
US-09-193-562D-2
; Sequence 2, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 2
; LENGTH: 905
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells
US-09-193-562D-2

Alignment Scores:
Pred. No.:      1,06e-18      Length:      905
Score:          219.00      Matches:      49
Percent Similarity: 69.51%      Conservative: 8
Best Local Similarity: 59.76%      Mismatches: 19
Query Match:      50.69%      Indels:      6
DB:              4          Gaps:      3

US-09-049-696-10 (1-229) x US-09-193-562D-2 (1-905)
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Db 585 ThrVal 586

RESULT 9

US-09-623-624-18

; Sequence 18, Application US/09623624

; Patent No. 6576434

; GENERAL INFORMATION:

; APPLICANT: Megainin Pharmaceuticals, Inc.

; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating

; TITLE OF INVENTION: Acopic Allergies, Including Asthma and Related

; TITLE OF INVENTION: Disorders

; FILE REFERENCE: 36870-5073-WO

; CURRENT APPLICATION NUMBER: US/09/623,624

; CURRENT FILING DATE: 2000-09-06

; PRIOR APPLICATION NUMBER: PCT/US99/04703

; PRIOR FILING DATE: 1999-03-03

; PRIOR APPLICATION NUMBER: US 08/697,360

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,419

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,440

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,471

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,471

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,472

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,473

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/702,105

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/702,110

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/702,168

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/980,872

; PRIOR FILING DATE: 1997-12-01

; NUMBER OF SEQ ID NOS: 18

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 18

; LENGTH: 903

; TYPE: PRT

; ORGANISM: Bos taurus

US-09-623-624-18

Alignment Scores:

Pred. No.: 5,77e-17 Length: 903

Score: 205.00 Matches: 46

Percent Similarity: 67.07% Conservative: 9

Best Local Similarity: 56.10% Mismatches: 21

Query Match: 47.45% Indels: 6

DB: 4 Gaps: 3

US-09-049-696-10 (1-229) x US-09-623-624-18 (1-903)

QY 1 GGCACAGTCATCGTGACAGCACCGTGGGAAAGCACACTTTGTTCTTATCAGCTGGACA 60

Db 505 GlyThrValProValAspSerThrIleGlyAsnAspThrPhePheValValThrTrpThr 524

QY 61 ACGCAGCTCCCAAAATCTTCTCTGGGATCCAGTGGACAG-----AAGCAAGTGGC 114

Db 525 IleLysLysProGluIleLeuLeuGlnAspProLysGlyLysLysTyrLysThrSerAsp 544

QY 115 TTGTAGTGGACAAA---RACACCAAAATGGCTTCTCAATCCAGCATTGCTAAG 171

Db 545 PheLysGluAspLysLeuAsnIleHisSerAlaArgLeuArgIleProGlyIleAlaGlu 564

QY 172 GTTGGCACTTGGAAATACAGTCTG-----CAAGCAAGCTCAAAACCTTGACCTG 222

Db 565 ThrGlyThrTrpThrTyrSerLeuLeuAsnHisAlaSerProGlnIleLeuThrVal 584

223 ACTGTC 228

Db 585 ThrVal 586

RESULT 10

US-09-193-562D-34

; Sequence 34, Application US/09193562D

; Patent No. 6309857

; GENERAL INFORMATION:

; APPLICANT: Pauli, Benedicht U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules

; FILE REFERENCE: 18617.0052

; CURRENT APPLICATION NUMBER: US/09/193,562D

; CURRENT FILING DATE: 1998-11-17

; PRIOR APPLICATION NUMBER: US/60/065,922

; PRIOR FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 34

; LENGTH: 902

; TYPE: PRT

; ORGANISM: Mus musculus

US-09-193-562D-34

Alignment Scores:

Pred. No.: 4.2e-15 Length: 902

Score: 190.00 Matches: 42

Percent Similarity: 66.25% Conservative: 11

Best Local Similarity: 52.50% Mismatches: 23

Query Match: 43.98% Indels: 4

DB: 4 Gaps: 3

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QY 1 GGCACAGTCATCGTGACAGCACCGTGGGAAAGCACACTTTGTTCTTATCAGCTGGACA 60

Db 505 GlyThrValProValAspSerThrValGlyAsnAspThrPhePheValIleThrTrpMet 524

QY 61 ACGCAGCTCCCAAAATCTTCTCTGGGATCCAGTGGACAGAG-----CAAGTGGC 114

Db 525 ValLysLysProGluIleLeuLeuGlnAspProLysGlyLysLysTyrThrSerAsp 544

QY 115 TTGTAGTGGACAAA---RACACCAAAATGGCTTCTCAATCCAGCATTGCTAAG 171

Db 545 PheGlnAspLysLeuAsnIleArgSerAlaArgLeuGlnIleProGlyThrAlaGlu 564

QY 172 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGC---TCACAAACCTTGACCTGACTGTC 228

Db 565 ThrGlyThrTrpThrTyrSerTyrThrGlyThrLysSerGlnLeuIleThrMetThrVal 584

RESULT 11

US-09-193-562D-30

; Sequence 30, Application US/09193562D

; Patent No. 6309857

; GENERAL INFORMATION:

; APPLICANT: Pauli, Benedicht U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules

; FILE REFERENCE: 18617.0052

; CURRENT APPLICATION NUMBER: US/09/193,562D

; CURRENT FILING DATE: 1998-11-17

; PRIOR APPLICATION NUMBER: US/60/065,922

; PRIOR FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 30

; LENGTH: 1000

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-193-562D-30

Alignment Scores:

Pred. No.: 1e-13 Length: 1000

Score: 179.00 Matches: 41

Percent Similarity: 62.35% Conservative: 12

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Best Local Similarity: 48.24% Mismatches: 20
Query Match: 41.44% Indels: 12
DB: 4 Gaps: 3

US-09-049-696-10 (1-229) x US-09-193-562D-30 (1-1000)
QY 1 GGCACAGTGATCGTGGACAGCACCGTGGGAAAGGACACTTTGTTCTTATCACCTGGACA 60
DB 524 GlyThrValProValAspSerThrValArgAsnAspThrSerPheValValThrTrpThr 543
QY 61 AGCAGCCTCCCAAAATCTCTCTGGGATCCAGTGGACAGAAG----- 105
DB 544 IleGlnLysProAlaIleIleLeuGlnAspProLysGlyLysLysThrThrSerAsp 563
QY 106 ---CAAGTGGCTTCTAGTGGACAAAACACCAAAATGCTACTCCAAATCCAGGC 162
DB 564 PheGlnGluGly-----GluLeuAsnIleArgSerAlaArgLeuArgIleProGly 580
QY 163 ATTGCTAAGTTGGCAGCTTGGAAATACAGTCTGCAA-----GCAAGCTCACAAAACC 213
DB 581 IleAlaGluThrGlyIleTrpThrTyrSerValArgAsnAsnHisThrLysSerGlnLeu 600
QY 214 TTGACCTGACTGTC 228
DB 601 LeuThrValThrMet 605

RESULT 12
US-09-643-597-170
; Sequence 170, Application US/09643597
; Patent No. 6426072
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Ligu
; APPLICANT: Kalos, Michael S.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Henderson, Robert A.
; APPLICANT: McNeill, Patricia D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.455C11
; CURRENT APPLICATION NUMBER: US/09/643,597
; NUMBER OF SEQ ID NOS: 369
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 170
; LENGTH: 791
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-643-597-170

Alignment Scores:
Pred. No.: 9,27e-13 Length: 791
Score: 171.00 Matches: 38
Percent Similarity: 62.96% Conservative: 13
Best Local Similarity: 46.91% Mismatches: 24
Query Match: 39.58% Indels: 6
DB: 4 Gaps: 3

US-09-049-696-10 (1-229) x US-09-643-597-170 (1-791)
QY 4 ACAGTGATCGTGGACAGCACCGTGGGAAAGGACACTTTGTTCTTATCACCTGG---ACA 60
DB 513 ThrValThrValAspAsnThrValGlyAsnAspThrMetPheLeuValThrTrpGlnAla 532
QY 61 AGCAGCCTCCCAAAATCTCTCTGGGATCCAGTGGACAGAAG-----CAAGTGGC 114
DB 533 SerGlyProProGluIleLeuPheAspProAspGlyArgLysTyrTyrThrAsnAsn 552
QY 115 TTTGTAGTGGACAAAACACCAAAATGCTACTCCAAATCCAGGCAATTCCTAAGGTT 174
DB 553 PheIleThrAsnLeuThrPheArgThrAlaSerLeuTrpIleProGlyThrAlaLysPro 572
QY 175 GGCATTTCGAAATACAGTCTG-----CAAGCAAGCTCAAAACCTTGACCTGACT 225
DB 573 GlyHisTrpThrTyrThrLeuAsnAsnThrHisSerLeuGlnAlaLeuLysValThr 592
QY 226 GTC 228
DB 593 Val 593

RESULT 14
US-09-542-615A-170
; Sequence 170, Application US/09542615A
; Patent No. 6518256
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Ligu
; APPLICANT: Kalos, Michael D.
```

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QY 115 TTTGTAGTGGACAAAACACCAAAATGCTACTCCAAATCCAGGCAATTCCTAAGGTT 174
DB 553 PheIleThrAsnLeuThrPheArgThrAlaSerLeuTrpIleProGlyThrAlaLysPro 572
QY 175 GGCATTTCGAAATACAGTCTG-----CAAGCAAGCTCAAAACCTTGACCTGACT 225
DB 573 GlyHisTrpThrTyrThrLeuAsnAsnThrHisSerLeuGlnAlaLeuLysValThr 592
QY 226 GTC 228
DB 593 Val 593

RESULT 13
US-09-480-884A-170
; Sequence 170, Application US/09480884A
; Patent No. 6482597
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Ligu
; APPLICANT: Hosken, Nancy A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
; FILE REFERENCE: 210121.455C6
; CURRENT APPLICATION NUMBER: US/09/480,884A
; NUMBER OF SEQ ID NOS: 330
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 170
; LENGTH: 791
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-480-884A-170

Alignment Scores:
Pred. No.: 9,27e-13 Length: 791
Score: 171.00 Matches: 38
Percent Similarity: 62.96% Conservative: 13
Best Local Similarity: 46.91% Mismatches: 24
Query Match: 39.58% Indels: 6
DB: 4 Gaps: 3

US-09-049-696-10 (1-229) x US-09-480-884A-170 (1-791)
QY 4 ACAGTGATCGTGGACAGCACCGTGGGAAAGGACACTTTGTTCTTATCACCTGG---ACA 60
DB 513 ThrValThrValAspAsnThrValGlyAsnAspThrMetPheLeuValThrTrpGlnAla 532
QY 61 AGCAGCCTCCCAAAATCTCTCTGGGATCCAGTGGACAGAAG-----CAAGTGGC 114
DB 533 SerGlyProProGluIleLeuPheAspProAspGlyArgLysTyrTyrThrAsnAsn 552
QY 115 TTTGTAGTGGACAAAACACCAAAATGCTACTCCAAATCCAGGCAATTCCTAAGGTT 174
DB 553 PheIleThrAsnLeuThrPheArgThrAlaSerLeuTrpIleProGlyThrAlaLysPro 572
QY 175 GGCATTTCGAAATACAGTCTG-----CAAGCAAGCTCAAAACCTTGACCTGACT 225
DB 573 GlyHisTrpThrTyrThrLeuAsnAsnThrHisSerLeuGlnAlaLeuLysValThr 592
QY 226 GTC 228
DB 593 Val 593

RESULT 14
US-09-542-615A-170
; Sequence 170, Application US/09542615A
; Patent No. 6518256
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Ligu
; APPLICANT: Kalos, Michael D.
```



APPLICANT: Bangur, Chaitanya S.  
APPLICANT: Hosken, Nancy A.  
APPLICANT: Fanger, Gary R.  
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY  
TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER  
FILE REFERENCE: 210121.455C8  
CURRENT APPLICATION NUMBER: US/09/542,615A  
CURRENT FILING DATE: 2000-04-14  
NUMBER OF SEQ ID NOS: 350  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 170  
LENGTH: 791  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-542-615A-170

Alignment Scores:  
Pred. No.: 9,27e-13 Length: 791  
Score: 171.00 Matches: 38  
Percent Similarity: 62.96% Conservative: 13  
Best Local Similarity: 46.91% Mismatches: 24  
Query Match: 39.58% Indels: 6  
DB: 4 Gaps: 3

US-09-049-696-10 (1-229) x US-09-542-615A-170 (1-791)

QY 4 ACAGTGATCGTGACAGCACCGTGGGAAAGGACACTTTTCTTATCACCTGG---ACA 60  
Db 513 ThrValThrValAspAsnThrValGlyAsnAspThrMetPheLeuValThrTrpGlnAla 532  
QY 61 ACGCAGCTCCCAAAATCCTTCTCTGGGATCCAGTGGACAGAAAG-----CAAGGTGGC 114  
Db 533 SerGlyProProGluIleIleLeuPheAspProAspGlyArgLysTyrTyrThrAsnAsn 552  
QY 115 TTGTAGTGGACAAAACACCAAAATGGCTACCTCAAAATCCAGGCATTGCTAAGGTT 174  
Db 553 PheIleThrAsnLeuThrPheArgThrAlaSerLeuTrpIleProGlyThrAlaLysPro 572  
QY 175 GGCACCTTGGAAATACAGTCTG-----CAAGCAAGCTCACAAACCTTGACCTGACT 225  
Db 573 GlyHisTrpThrTyrThrLeuAsnAsnThrHisSerLeuGlnAlaLeuLysValThr 592  
QY 226 GTC 228  
Db 593 Val 593

RESULT 15

US-09-606-421B-170  
Sequence 170, Application US/09606421B  
Patent No. 6531315  
GENERAL INFORMATION:  
APPLICANT: Wang, Tongtong  
APPLICANT: Fan, Liqun  
APPLICANT: Kalos, Michael D.  
APPLICANT: Bangur, Chaitanya S.  
APPLICANT: Hosken, Nancy  
APPLICANT: Fanger, Gary R.  
APPLICANT: Li, Samuel X.  
APPLICANT: Wang, Aijun  
APPLICANT: Skeiky, Yasir A.W.  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER  
FILE REFERENCE: 210121.455C9  
CURRENT APPLICATION NUMBER: US/09/606,421B  
CURRENT FILING DATE: 2000-06-28  
NUMBER OF SEQ ID NOS: 358  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 170  
LENGTH: 791  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-606-421B-170

Alignment Scores:  
Pred. No.: 9,27e-13 Length: 791  
Score: 171.00 Matches: 38  
Percent Similarity: 62.96% Conservative: 13  
Best Local Similarity: 46.91% Mismatches: 24  
Query Match: 39.58% Indels: 6  
DB: 4 Gaps: 3  
US-09-049-696-10 (1-229) x US-09-606-421B-170 (1-791)  
QY 4 ACAGTGATCGTGACAGCACCGTGGGAAAGGACACTTTTCTTATCACCTGG---ACA 60  
Db 513 ThrValThrValAspAsnThrValGlyAsnAspThrMetPheLeuValThrTrpGlnAla 532  
QY 61 ACGCAGCTCCCAAAATCCTTCTCTGGGATCCAGTGGACAGAAAG-----CAAGGTGGC 114  
Db 533 SerGlyProProGluIleIleLeuPheAspProAspGlyArgLysTyrTyrThrAsnAsn 552  
QY 115 TTGTAGTGGACAAAACACCAAAATGGCTACCTCAAAATCCAGGCATTGCTAAGGTT 174  
Db 553 PheIleThrAsnLeuThrPheArgThrAlaSerLeuTrpIleProGlyThrAlaLysPro 572  
QY 175 GGCACCTTGGAAATACAGTCTG-----CAAGCAAGCTCACAAACCTTGACCTGACT 225  
Db 573 GlyHisTrpThrTyrThrLeuAsnAsnThrHisSerLeuGlnAlaLeuLysValThr 592  
QY 226 GTC 228  
Db 593 Val 593

Search completed: April 21, 2004, 16:22:14  
Job time : 14.6857 secs

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: April 24, 2004, 00:33:00 ; Search time 20.0386 Seconds  
(without alignments)  
6037.311 Million cell updates/sec

Title: US-09-049-696-9  
Perfect score: 218  
Sequence: 1 GAACATGGCCTCATGTATG.....TCTTGGGATCCAGTGGAC 218

Scoring table: IDENTITY NUC  
Gapop 10\_0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0  
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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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5: /cgn2\_6/ptodata/2/ina/PTUS COMB.seq.\*  
6: /cgn2\_6/ptodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	218	100.0	1512	4	US-09-016-434-850
2	218	100.0	2745	4	US-09-623-624-5
3	218	100.0	3007	4	US-09-193-562D-27
4	156.2	71.7	2931	4	US-09-623-624-1
5	135.4	62.1	3043	4	US-09-049-698-16
6	135.4	62.1	3181	4	US-09-049-698-18
7	88.2	40.5	3317	4	US-09-193-562D-1
8	88.2	40.5	3418	4	US-09-193-562D-29
9	80.2	36.8	3022	4	US-09-193-562D-33
10	72.8	33.4	590	4	US-09-643-597-132
11	72.8	33.4	590	4	US-09-480-884A-132
12	72.8	33.4	590	4	US-09-542-615A-132
13	72.8	33.4	590	4	US-09-606-421B-132
14	72.8	33.4	590	4	US-09-221-107-132
15	72.8	33.4	2773	4	US-09-643-597-358
16	72.8	33.4	2784	4	US-09-643-597-168
17	72.8	33.4	2784	4	US-09-480-884A-168
18	72.8	33.4	2784	4	US-09-542-615A-168
19	72.8	33.4	2784	4	US-09-606-421B-168
20	72.8	33.4	2970	4	US-09-193-562D-31
21	72.8	33.4	3156	4	US-09-919-172-86
22	72.8	33.4	3190	4	US-09-623-624-3
23	72.8	33.4	3362	4	US-09-643-597-167
24	72.8	33.4	3362	4	US-09-480-884A-167
25	72.8	33.4	3362	4	US-09-542-615A-167
26	72.8	33.4	3362	4	US-09-606-421B-167
27	72.8	33.4	3951	4	US-09-643-597-160

28	72.8	33.4	3951	4	US-09-480-884A-160	Sequence 160, App
29	72.8	33.4	3951	4	US-09-542-615A-160	Sequence 160, App
30	72.8	33.4	3951	4	US-09-606-421B-160	Sequence 160, App
31	72.8	33.4	3951	4	US-09-221-107-160	Sequence 160, App
32	72.8	33.4	8031	4	US-09-643-597-254	Sequence 254, App
33	72.8	33.4	8031	4	US-09-480-884A-254	Sequence 254, App
34	72.8	33.4	8031	4	US-09-542-615A-254	Sequence 254, App
35	72.8	33.4	8031	4	US-09-606-421B-254	Sequence 254, App
36	54.6	25.0	201	4	US-09-049-698-6	Sequence 6, Appli
37	31.8	14.6	387	4	US-09-216-393B-61	Sequence 61, Appl
38	31.8	14.6	2590	4	US-09-620-312D-67	Sequence 67, Appl
39	31.4	14.4	417	4	US-09-216-393B-63	Sequence 63, Appl
40	30	13.8	431	4	US-09-833-381-790	Sequence 790, App
41	30	13.8	31208	4	US-09-852-067-3	Sequence 3, Appli
42	29.8	13.7	5455	1	US-08-342-930-1	Sequence 1, Appli
43	29.4	13.5	464	2	US-08-449-287-11	Sequence 11, Appl
44	29.4	13.5	777	2	US-08-860-882A-28	Sequence 28, Appl
45	29.4	13.5	777	4	US-09-011-769A-24	Sequence 24, Appl

ALIGNMENTS

RESULT 1  
US-09-016-434-850  
; Sequence 850, Application US/09016434  
; Patent No. 6500938  
; GENERAL INFORMATION:  
; APPLICANT: Janice Au-Young  
; APPLICANT: Jeffrey J. Seilhamer  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION  
; NUMBER OF SEQUENCES: 1490  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/016,434  
; FILING DATE: HEREWITH  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Zeller, Karen J.  
; REGISTRATION NUMBER: 37,071  
; REFERENCE/DOCKET NUMBER: PA-0002 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (650) 855-0555  
; TELEFAX: (650) 845-4166  
; INFORMATION FOR SEQ ID NO: 850:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1512 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: COLNNOT01  
; CLONE: 608819  
US-09-016-434-850

Query Match 100.0%; Score 218; DB 4; Length 1512;  
Best Local Similarity 100.0%; Pred. No. 7.7e-68;

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Qy	61	GCGCTCCATCCAGCTTCGAGAGTAGGATTAACCTCCAGAACAGCCAGTGGATGAATGG	120							
Db	176	GCGCTCCATCCAGCTTCGAGAGTAGGATTAACCTCCAGAACAGCCAGTGGATGAATGG	235							
Qy	121	CACAGTGATCGTGGACAGCACCGCTGGGGAAGGACACTTTGTTCTTATCAGCTGGACAAC	180							
Db	236	CACAGTGATCGTGGACAGCACCGCTGGGGAAGGACACTTTGTTCTTATCAGCTGGACAAC	295							
Qy	181	GCAGCCTCCCAAAATCTTCTCTGGGATCCCAAGTGGAC	218							
Db	296	GCAGCCTCCCAAAATCTTCTCTGGGATCCCAAGTGGAC	333							

RESULT 2  
US-09-623-624-5  
; Sequence 5, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magalnin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Acopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06

	Query Match	100.0%	Score 218;	DB 4;	Length 2745;
	Best Local Similarity	100.0%;	Prod. No. 1e-67;		
	Matches 218;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	GAAACAATGGCCCTCATTTGATGCTTTTTGGGGCCCTTTTCATCAGAAATGGAGCTGTCTCTCA	60		
Db	1392	GAAACAATGGCCCTCATTTGATGCTTTTTGGGGCCCTTTTCATCAGAAATGGAGCTGTCTCTCA	1451		

Qy	61	GCCTCCATCCAGCTTGAGAGTAAAGGATTAACCTCCAGAA	CAGCCAGTGGATGAATGG	120
Db	1452	GCCTCCATCCAGCTTGAGAGTAAAGGATTAACCTCCAGAA	CAGCCAGTGGATGAATGG	1511
Qy	121	CACAGTGATCGTGGGACAGCACCGTGGGAAMAGGACACTTTGTTCCTTATCACTTGGACAAC	180	
Db	1512	CACAGTGATCGTGGGACAGCACCGTGGGAAMAGGACACTTTGTTCCTTATCACTTGGACAAC	1571	
Qy	181	CGAGCCTCCCCAATCGTCTCTGGGATCCAGTGGAC	218	
Db	1572	CGAGCCTCCCCAATCGTCTCTGGGATCCAGTGGAC	1609	

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RESULT 3
US-09-193-562D-27
; Sequence 27, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 27
; LENGTH: 3007
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-193-562D-27

```

Query Match	100.0%;	Score 218;	DB 4;	Length 3007;
Best Local Similarity	100.0%;	Pred. No. 1.le-67;		

Qy	1	GAACAATGGCGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCA	60
Db	1438	GAACAATGGCGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCA	1497
Qy	61	GCSCCTCATCCAGCTTGAGAGTAAGGATTTAAACCTCCAGAACAGCCAGTGGATGAATGG	120
Db	1498	GCSCCTCATCCAGCTTGAGAGTAAGGATTTAAACCTCCAGAACAGCCAGTGGATGAATGG	1557
Qy	121	CACAGTGATCGTGGACAGCACCGCTGGGAAAGGACACTTTTCTTATCACCTGGGACAAC	180
Db	1558	CACAGTGATCGTGGACAGCACCGCTGGGAAAGGACACTTTTCTTATCACCTGGGACAAC	1617
Qy	181	GCAGCTCCCCAAATCTTCTCTGGGATCCAGTGGAC	218
Db	1618	GCAGCTCCCCAAATCTTCTCTGGGATCCAGTGGAC	1655

RESULT 4  
US-09-623-624-1  
; Sequence 1, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magalain Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-03-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 2931  
; TYPE: DNA  
; ORGANISM: Mus musculus  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (8)..(2746)  
US-09-623-624-1

Query Match 71.7%; Score 156.2; DB 4; Length 2931;  
Best Local Similarity 82.5%; Pred. No. 1.3e-45;  
Matches 179; Conservative 0; Mismatches 38; Indels 0; Gaps 0;  
QY 1 GAACAATGGCCTCATTGATGCTTTTGGGGCCCTTTCATCAGGAAATGGAGCTGCTCTCA 60  
DB 1402 GAACAATGGCTTGTGATGCTTTCGAGCAGCTCTCTCAGGAATGCGCGATCGCTCA 1461  
QY 61 GCGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCAGTGGATGAATGG 120  
DB 1462 GCACTCCATCCAGCTGAGAGCAGGGAGTTAATCTCCAGATAACCAATGGATGAATGG 1521  
QY 121 CACAGTGTGCTGGAGCAGCAGCGTGGGAAAGGACATTTGTTTCTTATCACCTGGACAAC 180  
DB 1522 CTCAGTGTGCTGGAGCAGCTCGGTGGGCAAGGACACCTTTGTTTCTTATCACCTGGACAAC 1581  
QY 181 GCAGCTCCCTCCCAATCCTTCTCTGGGATCCAGTGA 217  
DB 1582 GCATCCTCTACATATATTTATCTGGGATCCAGCGGA 1618

RESULT 5  
US-09-049-698-16  
; Sequence 16, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITTS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLASS, MICHAEL R.  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; TITLE OF INVENTION: TRACT  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park  
; STATE: IL

; COUNTRY: USA  
; ZIP: 60064-3500  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/049,698  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA: 08/828,856  
; FILING DATE: 31-MAR-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Becker, Cheryl L.  
; REGISTRATION NUMBER: 35,441  
; REFERENCE/DOCKET NUMBER: 6068.US.PI  
; TELEPHONE: 847/935-1729  
; TELEFAX: 847/938-2623  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 16:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 3043 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-09-049-698-16

Query Match 62.1%; Score 135.4; DB 4; Length 3043;  
Best Local Similarity 76.5%; Pred. No. 3.5e-38;  
Matches 166; Conservative 0; Mismatches 51; Indels 0; Gaps 0;  
QY 1 GACATGCGCTCATTGATGCTTTTGGGGCCCTTTCATCAGGAAATGGAGCTGCTCTCA 60  
DB 1408 GAACAATGGCTTGTGATGCTTTCGAGCAGCTCTCTCAGGAATGCGCGATCGCTCA 1467  
QY 61 GCGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCAGTGGATGAATGG 120  
DB 1468 GAAGTCCCTCAGCTGAAAGTAAGGATTAACACTGAATAGTAACTGGATGAACGA 1527  
QY 121 CACAGTGTGCTGGAGCAGCAGCGTGGGAAAGGACATTTGTTTCTTATCACCTGGACAAC 180  
DB 1528 CACTGTCAATATGATAGTACAGTGGGAAAGGACAGCTTCTTCTCATCATCATCATCATCAT 1587  
QY 181 GCAGCTCCCTCCCAATCCTTCTCTGGGATCCAGTGA 217  
DB 1588 TCTGCTCCCAAGTATTTCTCTCTGGGATCCAGTGA 1624

RESULT 6  
US-09-049-698-18  
; Sequence 18, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITTS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLASS, MICHAEL R.  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; TITLE OF INVENTION: TRACT  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park

```
STATE: IL
COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
  APPLYING APPLICATION NUMBER: US/09/049,698
  FILING DATE:
  CLASSIFICATION:
  PRIOR APPLICATION DATA:
    APPLICATION NUMBER: 08/828,856
    FILING DATE: 31-MAR-1997
  ATTORNEY/AGENT INFORMATION:
    NAME: Becker, Cheryl L.
    REGISTRATION NUMBER: 35,441
    REFERENCE/DOCKET NUMBER: 6068.US.P1
  TELECOMMUNICATION INFORMATION:
    TELEPHONE: 847/935-1729
    TELEFAX: 847/938-2623
    TELEX:
  INFORMATION FOR SEQ ID NO: 18:
    SEQUENCE CHARACTERISTICS:
      LENGTH: 3181 base pairs
      TYPE: nucleic acid
      STRANDEDNESS: single
      TOPOLOGY: linear
    US-09-049-698-18

Query Match          62.1%; Score 135.4; DB 4; Length 3181;
Best Local Similarity 76.5%; Pred. No. 3.6e-38;
Matches 166; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

QY 1 GAACATGCGCTCATTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCA 60
DB 1419 GAACATGCGCTCATTGATGCTTTTGGGGCTTTTACATCAGGAATACATCTCTCCCA 1478

QY 61 GCGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCAGTGGATGATGG 120
DB 1479 GAAGTCCCTTCAGCTCGAAAGTAAGGATTAACACTGAATAGTAAATGCTGGATGAACGA 1538

QY 121 CACAGTATCGTGGACAGCACCGTGGGAAGGACACTTTGTTTATCACCTGGACAC 180
DB 1539 CACTGTCAATTAATGATAGTACAGTGGGAAGGACAGCTTTCTTCATCACATGGAACAG 1598

QY 181 GCAGCCTCCCAAAATCCTTCTCTGGGATCCCAAGTGA 217
DB 1599 TCTGCTCCCAAGTATTTCTCTCTGGATCCCAAGTGA 1635

RESULT 7
US-09-193-562D-1
; Sequence 1, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 1
; LENGTH: 3317
; TYPE: DNA
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: sequence encoding Lu-ECAM-1 and Lu-ECAM-1 associated
; OTHER INFORMATION: protein from bovine endothelial cells

US-09-193-562D-1
Query Match          40.5%; Score 88.2; DB 4; Length 3317;
Best Local Similarity 63.4%; Pred. No. 2.6e-21;
Matches 135; Conservative 0; Mismatches 78; Indels 0; Gaps 0;

QY 5 AATGGCCTCATTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGC 64
DB 1464 ACTGGCCTTACTAATGCTTTTCAGTAGAATTTTCATCTAGAAGTGGAGCATCTCAGCAG 1523

QY 65 TCCATCCAGCTTGAGAGTAAGGATTAACCCCTCCAGAACAGCAGTGGATGAATGGCACA 124
DB 1524 GCTATTTCAGTTGGAAGCAAGCCCTTGAAATTTACAGGAAGGAAAGATAAACGGCACA 1583

QY 125 GTGATCGTGGACAGCACCGTGGGAAGGACACTTTTCTTATCACCTGGACACGCGAG 184
DB 1584 GTGCTGTAGACAGTACAGTTGGAAATGACACTTTCTTTGTTGTGCATCGGACAATACAA 1643

QY 185 CCTCCCAAAATCCTTCTCTGGGATCCCAAGTGA 217
DB 1644 AAACAGAAATTTGTTCTCCAGATCCAAAGGA 1676

RESULT 8
US-09-193-562D-29
; Sequence 29, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 29
; LENGTH: 3418
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-193-562D-29

Query Match          40.5%; Score 88.2; DB 4; Length 3418;
Best Local Similarity 63.4%; Pred. No. 2.7e-21;
Matches 135; Conservative 0; Mismatches 78; Indels 0; Gaps 0;

QY 5 AATGGCCTCATTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGC 64
DB 1474 AATGGCCTTATTGATGCTTTTCAGCAGAAATTTTCATCTAGAAGTGGCAGCATCTCTCAGCAG 1533

QY 65 TCCATCCAGCTTGAGAGTAAGGATTAACCCCTCCAGAACAGCAGTGGATGAATGGCACA 124
DB 1534 GCTCTTCAGTTGGAAGTAAATCTTTGAATATCCCGCAAGAAATGGATAATGGTACA 1593

QY 125 GTGATCGTGGACAGCACCGTGGGAAGGACACTTTGTTTATCACCTGGACACGCGAG 184
DB 1594 GTGCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1653

QY 185 CCTCCCAAAATCCTTCTCTGGGATCCCAAGTGA 217
DB 1654 AAGCCAGCAATAATTTCTTCAAGATCCAAAGGA 1686

RESULT 9
US-09-193-562D-33
; Sequence 33, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
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; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 33  
; LENGTH: 3022  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-09-193-562D-33

Query Match 36.8%; Score 80.2; DB 4; Length 3022;  
Best Local Similarity 61.0%; Pred. No. 1.8e-18;  
Matches 130; Conservative 0; Mismatches 83; Indels 0; Gaps 0;  
QY 5 AATGGCCTCATGATGCTTTTGGGCGCCTTTCATCAGGAATGGAGTGTCTCTCAGCGC 64  
DB 1416 AACAGCCTTATCATGCTTTCAGTAGAATTCATCTACAGTGGCAGCGTCTCCAGCAG 1475  
QY 65 TCATCCAGCTTGAGATGAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCACA 124  
DB 1476 GCTCTGCAGTTGGAGAGCAAGCCTTCGATGTCAGAGCAGGGGCATGGATAAACGGTACA 1535  
QY 125 GTGATCGTGGACAGCCGCTGGGAAGGACACTTTTCTTATCACCCTGGGACAGCGAG 184  
DB 1536 GTACCTCTGGACAGTACCGCTCGGCAAGCAGACAGCTTCTTTGTTATCACCTGGATGGTAAAA 1595  
QY 185 CTTCCCAATCTCTCTCGGATCCAGTGA 217  
DB 1596 AGCCAGAAATCAATTTCTCAGATCCAAAGGA 1628

RESULT 10  
US-09-643-597-132  
; Sequence 132, Application US/09643597  
; Patent No. 6426072  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Fan, Liqun  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Hosken, Nancy  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Li, Samuel X.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Skeiky, Yasir A.W.  
; APPLICANT: Henderson, Robert A.  
; APPLICANT: McNeill, Patricia D.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; FILE REFERENCE: 210121.455C11  
; CURRENT APPLICATION NUMBER: US/09/643,597  
; CURRENT FILING DATE: 2000-08-21  
; NUMBER OF SEQ ID NOS: 369  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 132  
; LENGTH: 590  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-643-597-132

Query Match 33.4%; Score 72.8; DB 4; Length 590;  
Best Local Similarity 64.0%; Pred. No. 3.4e-16;  
Matches 110; Conservative 0; Mismatches 62; Indels 0; Gaps 0;  
QY 4 CAATGGCCTCATGATGCTTTTGGGCGCCTTTCATCAGGAATGGAGTGTCTCTCAGCG 63  
DB 204 CAATAGCATGATGATGCTTTCAGTAGAATTTCTCTGGAATGGAGACATTTTCCAGCA 263  
QY 64 CTCATCCAGCTTGAGATGAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCAC 123  
DB 264 ACATATTCAGCTTGAAGTACAGGTGAAATGTCAAACCTCACCATCAATTTGAAAAACAC 323

QY 124 AGTGATCGTGGACAGCACCGCTGGGAAAGGACACTTTTGTCTTATCACCTGG 175  
DB 324 AGTGACTGTGGATAAATACTGTGGGCAACGACACTATGTTTCTAGTTACGTGG 375  
RESULT 11  
US-09-480-884A-132  
; Sequence 132, Application US/09480884A  
; Patent No. 6482597  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Fan, Liqun  
; APPLICANT: Hosken, Nancy A.  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Fanger, Gary R.  
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY  
; FILE REFERENCE: 210121.455C6  
; CURRENT APPLICATION NUMBER: US/09/480,884A  
; CURRENT FILING DATE: 2001-08-27  
; NUMBER OF SEQ ID NOS: 330  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 132  
; LENGTH: 590  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-480-884A-132

Query Match 33.4%; Score 72.8; DB 4; Length 590;  
Best Local Similarity 64.0%; Pred. No. 3.4e-16;  
Matches 110; Conservative 0; Mismatches 62; Indels 0; Gaps 0;  
QY 4 CAATGGCCTCATGATGCTTTTGGGCGCCTTTCATCAGGAATGGAGTGTCTCTCAGCG 63  
DB 204 CAATAGCATGATGATGCTTTCAGTAGAATTTCTCTGGAATGGAGACATTTTCCAGCA 263  
QY 64 CTCATCCAGCTTGAGATGAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCAC 123  
DB 264 ACATATTCAGCTTGAAGTACAGGTGAAATGTCAAACCTCACCATCAATTTGAAAAACAC 323  
QY 124 AGTGATCGTGGACAGCACCGCTGGGAAAGGACACTTTTGTCTTATCACCTGG 175  
DB 324 AGTGACTGTGGATAAATACTGTGGGCAACGACACTATGTTTCTAGTTACGTGG 375

RESULT 12  
US-09-542-615A-132  
; Sequence 132, Application US/09542615A  
; Patent No. 6518256  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Fan, Liqun  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Hosken, Nancy A.  
; APPLICANT: Fanger, Gary R.  
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY  
; FILE REFERENCE: 210121.455C8  
; CURRENT APPLICATION NUMBER: US/09/542,615A  
; CURRENT FILING DATE: 2000-04-14  
; NUMBER OF SEQ ID NOS: 350  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 132  
; LENGTH: 590  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-542-615A-132

Query Match 33.4%; Score 72.8; DB 4; Length 590;  
Best Local Similarity 64.0%; Pred. No. 3.4e-16;  
Matches 110; Conservative 0; Mismatches 62; Indels 0; Gaps 0;





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OM nucleic - nucleic search, using sw model

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(without alignments)

8424.829 Million cell updates/sec

Title: US-09-049-696-9

Perfect score: 218

Sequence: 1 GAACATGGCCTCATTTGATG.....TCTTGGGATCCAGTGGAC 218

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 2907579 seqs, 2254313464 residues

Total number of hits satisfying chosen parameters: 5815158

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

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- 2: /cgn2\_6/ptodata/2/pubpna/PCT\_NEW\_PUB.seq.\*
- 3: /cgn2\_6/ptodata/2/pubpna/US06\_NEW\_PUB.seq.\*
- 4: /cgn2\_6/ptodata/2/pubpna/US06\_PUBCOMB.seq.\*
- 5: /cgn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq.\*
- 6: /cgn2\_6/ptodata/2/pubpna/PCTUS\_PUBCOMB.seq.\*
- 7: /cgn2\_6/ptodata/2/pubpna/US08\_NEW\_PUB.seq.\*
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- 9: /cgn2\_6/ptodata/2/pubpna/US09A\_PUBCOMB.seq.\*
- 10: /cgn2\_6/ptodata/2/pubpna/US09B\_PUBCOMB.seq.\*
- 11: /cgn2\_6/ptodata/2/pubpna/US09C\_PUBCOMB.seq.\*
- 12: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq.\*
- 13: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq.\*
- 14: /cgn2\_6/ptodata/2/pubpna/US10A\_PUBCOMB.seq.\*
- 15: /cgn2\_6/ptodata/2/pubpna/US10B\_PUBCOMB.seq.\*
- 16: /cgn2\_6/ptodata/2/pubpna/US10C\_PUBCOMB.seq.\*
- 17: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq.\*
- 18: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq.\*
- 19: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	218	100.0	1512	16	Sequence 850, App
2	218	100.0	2745	15	US-10-305-720-850
3	218	100.0	2854	15	US-10-270-595-5
4	218	100.0	2867	15	US-10-106-698-1971
5	218	100.0	3007	15	US-10-106-698-351
6	218	100.0	3109	15	US-10-055-4128-27
7	218	100.0	3111	9	US-10-106-698-2111
8	218	100.0	3111	9	US-09-823-356-25
9	218	100.0	3111	15	US-09-981-353-191
10	218	100.0	3267	9	US-10-235-994-25
11	218	100.0	3311	9	US-09-764-868-22
12	218	100.0	3311	9	US-09-922-217-1056
13	218	100.0	3311	14	US-09-833-263-1056
14	218	100.0	3311	15	US-10-025-380-1056
					Sequence 11, Appl

15	218	100.0	3311	15	US-10-393-590-12	Sequence 12, Appl
16	218	100.0	3311	15	US-10-393-590-46	Sequence 46, Appl
17	218	100.0	3311	15	US-10-393-590-47	Sequence 47, Appl
18	218	100.0	3311	15	US-10-393-567-11	Sequence 11, Appl
19	218	100.0	3311	15	US-10-393-567-12	Sequence 12, Appl
20	218	100.0	3311	15	US-10-393-567-46	Sequence 46, Appl
21	218	100.0	3311	15	US-10-393-567-47	Sequence 47, Appl
22	218	100.0	3311	15	US-10-394-087-11	Sequence 11, Appl
23	218	100.0	3311	15	US-10-394-087-12	Sequence 12, Appl
24	218	100.0	3311	15	US-10-394-087-46	Sequence 46, Appl
25	218	100.0	3311	15	US-10-394-087-47	Sequence 47, Appl
26	216.4	99.3	327	15	US-10-066-543-2111	Sequence 2111, Ap
27	216.4	99.3	544	15	US-10-066-543-2349	Sequence 2349, Ap
28	216.4	99.3	4569	13	US-09-867-034-3	Sequence 3, Appl
29	216.4	99.3	4569	13	US-10-276-115-3	Sequence 3, Appl
30	156.2	71.7	2931	15	US-10-270-595-1	Sequence 1, Appl
31	135.4	62.1	2754	15	US-10-345-680-33	Sequence 33, Appl
32	135.4	62.1	3043	14	US-10-025-167-16	Sequence 16, Appl
33	135.4	62.1	3169	9	US-09-981-353-53	Sequence 53, Appl
34	135.4	62.1	3169	15	US-10-235-994-15	Sequence 15, Appl
35	135.4	62.1	3181	14	US-10-025-167-18	Sequence 18, Appl
36	135.4	62.1	3195	10	US-09-867-034-22	Sequence 22, Appl
37	135.4	62.1	3195	13	US-10-276-115-22	Sequence 22, Appl
38	135.4	62.1	3196	13	US-10-158-646-39	Sequence 39, Appl
39	135.4	62.1	3199	13	US-10-276-774-993	Sequence 993, App
40	135.4	62.1	3204	15	US-10-345-680-31	Sequence 31, Appl
41	135.4	62.1	3207	15	US-10-101-510-660	Sequence 660, App
42	135.4	62.1	3218	16	US-10-087-080-33	Sequence 33, Appl
43	135.4	62.1	3265	9	US-09-989-722-378	Sequence 378, App
44	135.4	62.1	3265	9	US-09-989-723-378	Sequence 378, App
45	135.4	62.1	3265	9	US-09-989-279-378	Sequence 378, App

ALIGNMENTS

RESULT 1

US-10-305-720-850  
; Sequence 850, Application US/10305720  
; Publication No. US20040010136A1  
; GENERAL INFORMATION:  
; APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J.  
; TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expression  
; FILE REFERENCE: PA-0002-1 CON  
; CURRENT APPLICATION NUMBER: US/10/305,720  
; CURRENT FILING DATE: 2002-11-26  
; PRIOR APPLICATION NUMBER: 09/016,434  
; PRIOR FILING DATE: 1998-01-30  
; NUMBER OF SEQ ID NOS: 1490  
; SOFTWARE: PERL Program  
; SEQ ID NO 850  
; LENGTH: 1512  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20040010136A1 608B19  
US-10-305-720-850

Query Match	100.0%;	Score 218;	DB 16;	Length 1512;
Best Local Similarity	100.0%;	Pred. No. 7.1e-69;		
Matches 218;	Conservative	0;	Mismatches	0;
			Indels	0;
			Gaps	0;
Qy	1	GAACATGGCCTCATTTGATGCTTTTGGGGCCCTTTCATCAGGAATGGAGCTGCTCTCA	60	
Db	116	GAACATGGCCTCATTTGATGCTTTTGGGGCCCTTTCATCAGGAATGGAGCTGCTCTCA	175	
Qy	61	GGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCAGTGGATGAATGG	120	
Db	176	GGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCAGTGGATGAATGG	235	
Qy	121	CACAGTGAATCGTGGAGCAGCACCGTGGAAAGGACACTTTTGTTCCTTATCACCTGGCAAC	180	

Db 236 CACAGTATCGTGGACAGCACCGTGGAAAGACACTTTGTTTTCATCACCTGGACAC 295  
QY 181 GCAGCCTCCCAATCCTTCTCTGGATCCCACTGGAC 218  
Db 296 GCAGCCTCCCAATCCTTCTCTGGATCCCACTGGAC 333

## RESULT 2

US-10-270-595-5  
; Sequence 5, Application US/10270595  
; Publication No. US20030078409A1  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; CURRENT FILING DATE: 2002-10-16  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 2745  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(2742)  
US-10-270-595-5

Query Match 100.0%; Score 218; DB 15; Length 2745;  
Best Local Similarity 100.0%; Pred. No. 9e-69;  
Matches 218; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GAACAATGCCCTCATTGATGCTTTTGGGGCCCTTTCATCAGGAATGGAGCTGTCTCTCA 60  
Db 1392 GAACAATGCCCTCATTGATGCTTTTGGGGCCCTTTCATCAGGAATGGAGCTGTCTCTCA 1451  
QY 61 GGGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCAGCTGGATGAATGG 120  
Db 1452 GGGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCAGCTGGATGAATGG 1511  
QY 121 CACAGTATCGTGGACAGCACCGTGGAAAGACACTTTGTTTTCATCACCTGGACAC 180  
Db 1512 CACAGTATCGTGGACAGCACCGTGGAAAGACACTTTGTTTTCATCACCTGGACAC 1571  
QY 181 GCAGCCTCCCAATCCTTCTCTGGATCCCACTGGAC 218  
Db 1572 GCAGCCTCCCAATCCTTCTCTGGATCCCACTGGAC 1609

## RESULT 3

QY 1 GAACAATGCCCTCATTGATGCTTTTGGGGCCCTTTCATCAGGAATGGAGCTGTCTCTCA 60

US-10-106-698-1971  
; Sequence 1971, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 1971  
; LENGTH: 2854  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-106-698-1971

Query Match 100.0%; Score 218; DB 15; Length 2854;  
Best Local Similarity 100.0%; Pred. No. 9.2e-69;  
Matches 218; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GAACAATGCCCTCATTGATGCTTTTGGGGCCCTTTCATCAGGAATGGAGCTGTCTCTCA 60  
Db 1426 GAACAATGCCCTCATTGATGCTTTTGGGGCCCTTTCATCAGGAATGGAGCTGTCTCTCA 1485  
QY 61 GGGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCAGCTGGATGAATGG 120  
Db 1486 GGGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCAGCTGGATGAATGG 1545  
QY 121 CACAGTATCGTGGACAGCACCGTGGAAAGACACTTTGTTTTCATCACCTGGACAC 180  
Db 1546 CACAGTATCGTGGACAGCACCGTGGAAAGACACTTTGTTTTCATCACCTGGACAC 1605  
QY 181 GCAGCCTCCCAATCCTTCTCTGGATCCCACTGGAC 218  
Db 1606 GCAGCCTCCCAATCCTTCTCTGGATCCCACTGGAC 1643

## RESULT 4

US-10-106-698-351  
; Sequence 351, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 351  
; LENGTH: 2867  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-106-698-351

Query Match 100.0%; Score 218; DB 15; Length 2867;  
Best Local Similarity 100.0%; Pred. No. 9.2e-69;  
Matches 218; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1430 GAACAATGGCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAATGGAGCTGTCTCTCA 1489  
QY 61 GGGCTCCATCCAGCTTTGAGAGTAAGGATTAACCTCCAGAAACAGCCAGTGGATGAATGG 120  
Db 1490 GGGCTCCATCCAGCTTTGAGAGTAAGGATTAACCTCCAGAAACAGCCAGTGGATGAATGG 1549  
QY 121 CACAGTGATCGTGACAGACACCGTGGGAAAGGACACTTTGTTTCTTATCACCTGGACAAC 180  
Db 1550 CACAGTGATCGTGACAGACACCGTGGGAAAGGACACTTTGTTTCTTATCACCTGGACAAC 1609  
QY 181 GCAGCTCCCAATCCTTCTCTGGGATCCAGTGGAC 218  
Db 1610 GCAGCTCCCAATCCTTCTCTGGGATCCAGTGGAC 1647

RESULT 5  
US-10-055-412B-27  
; Sequence 27, Application US/10055412B  
; Publication No. US20030059861A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 27  
; LENGTH: 3007  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-055-412B-27

Query Match 100.0%; Score 218; DB 15; Length 3007;  
Best Local Similarity 100.0%; Pred. No. 9.3e-69;  
Matches 218; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GAACAATGGCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAATGGAGCTGTCTCTCA 60  
Db 1438 GAACAATGGCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAATGGAGCTGTCTCTCA 1497  
QY 61 GGGCTCCATCCAGCTTTGAGAGTAAGGATTAACCTCCAGAAACAGCCAGTGGATGAATGG 120  
Db 1498 GGGCTCCATCCAGCTTTGAGAGTAAGGATTAACCTCCAGAAACAGCCAGTGGATGAATGG 1557  
QY 121 CACAGTGATCGTGACAGACACCGTGGGAAAGGACACTTTGTTTCTTATCACCTGGACAAC 180  
Db 1558 CACAGTGATCGTGACAGACACCGTGGGAAAGGACACTTTGTTTCTTATCACCTGGACAAC 1617  
QY 181 GCAGCTCCCAATCCTTCTCTGGGATCCAGTGGAC 218  
Db 1618 GCAGCTCCCAATCCTTCTCTGGGATCCAGTGGAC 1655

RESULT 6  
US-10-106-698-2111  
; Sequence 2111, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29

; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 2111  
; LENGTH: 3109  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-106-698-2111  
Query Match 100.0%; Score 218; DB 15; Length 3109;  
Best Local Similarity 100.0%; Pred. No. 9.5e-69;  
Matches 218; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GAACAATGGCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAATGGAGCTGTCTCTCA 60  
Db 1279 GAACAATGGCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAATGGAGCTGTCTCTCA 1338  
QY 61 GGGCTCCATCCAGCTTTGAGAGTAAGGATTAACCTCCAGAAACAGCCAGTGGATGAATGG 120  
Db 1339 GGGCTCCATCCAGCTTTGAGAGTAAGGATTAACCTCCAGAAACAGCCAGTGGATGAATGG 1398  
QY 121 CACAGTGATCGTGACAGACACCGTGGGAAAGGACACTTTGTTTCTTATCACCTGGACAAC 180  
Db 1399 CACAGTGATCGTGACAGACACCGTGGGAAAGGACACTTTGTTTCTTATCACCTGGACAAC 1458  
QY 181 GCAGCTCCCAATCCTTCTCTGGGATCCAGTGGAC 218  
Db 1459 GCAGCTCCCAATCCTTCTCTGGGATCCAGTGGAC 1496

RESULT 7  
US-09-823-356-25  
; Sequence 25, Application US/09823356  
; Patent No. US20010025098A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Kaser, Matthew R.  
; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
; FILE REFERENCE: PF-0489-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823,356  
; CURRENT FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/039,307  
; PRIOR FILING DATE: 1998 March 13  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PERL Program  
; SEQ ID NO 25  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775  
US-09-823-356-25

Query Match 100.0%; Score 218; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 9.5e-69;  
Matches 218; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GAACAATGGCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAATGGAGCTGTCTCTCA 60  
Db 1425 GAACAATGGCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAATGGAGCTGTCTCTCA 1484  
QY 61 GGGCTCCATCCAGCTTTGAGAGTAAGGATTAACCTCCAGAAACAGCCAGTGGATGAATGG 120

Db 1485 GCGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAGCTGGATGAATGG 1544  
QY 121 CACAGTGATCGTGGACAGCACCGTGGGAAAGACACTTTGTTCTTATCACCTGGACACAC 180  
Db 1545 CACAGTGATCGTGGACAGCACCGTGGGAAAGACACTTTGTTCTTATCACCTGGACACAC 1604  
QY 181 GCAGCTCCCAAAATCCTTCTCTGGGATCCCAAGTGGAC 218  
Db 1605 GCAGCTCCCAAAATCCTTCTCTGGGATCCCAAGTGGAC 1642

## RESULT 8

US-09-981-353-191  
; Sequence 191, Application US/09981353  
; Patent No. US20020160382A1  
; GENERAL INFORMATION:  
; APPLICANT: Lasek, Amy W.  
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
; FILE REFERENCE: PA-0038 US  
; CURRENT APPLICATION NUMBER: US/09/981,353  
; CURRENT FILING DATE: 2001-10-11  
; NUMBER OF SEQ ID NOS: 194  
; SOFTWARE: PERL Program  
; SEQ ID NO 191  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20020160382A1 173775CB1  
US-09-981-353-191

Query Match 100.0%; Score 218; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 9.5e-69;  
Matches 218; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GAACAATGGCCTCATTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCA 60  
Db 1425 GAACAATGGCCTCATTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCA 1484  
QY 61 GCGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAGCTGGATGAATGG 120  
Db 1485 GCGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAGCTGGATGAATGG 1544  
QY 121 CACAGTGATCGTGGACAGCACCGTGGGAAAGACACTTTGTTCTTATCACCTGGACACAC 180  
Db 1545 CACAGTGATCGTGGACAGCACCGTGGGAAAGACACTTTGTTCTTATCACCTGGACACAC 1604  
QY 181 GCAGCTCCCAAAATCCTTCTCTGGGATCCCAAGTGGAC 218  
Db 1605 GCAGCTCCCAAAATCCTTCTCTGGGATCCCAAGTGGAC 1642

## RESULT 9

US-10-235-994-25  
; Sequence 25, Application US/10235994  
; Publication No. US20030101002A1  
; GENERAL INFORMATION:  
; APPLICANT: Bartha, Gabor  
; APPLICANT: Walker, Michael  
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS  
; FILE REFERENCE: ICYTP012  
; CURRENT APPLICATION NUMBER: US/10/235,994  
; CURRENT FILING DATE: 2002-09-04  
; PRIOR APPLICATION NUMBER: US/10/003,608  
; PRIOR FILING DATE: 2001-11-01  
; PRIOR APPLICATION NUMBER: 60/245,081  
; PRIOR FILING DATE: 2000-11-01  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 25  
; LENGTH: 3111

; TYPE: DNA  
; ORGANISM: Human  
US-10-235-994-25  
Query Match 100.0%; Score 218; DB 15; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 9.5e-69;  
Matches 218; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GAACAATGGCCTCATTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCA 60  
Db 1425 GAACAATGGCCTCATTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCA 1484  
QY 61 GCGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAGCTGGATGAATGG 120  
Db 1485 GCGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAGCTGGATGAATGG 1544  
QY 121 CACAGTGATCGTGGACAGCACCGTGGGAAAGACACTTTGTTCTTATCACCTGGACACAC 180  
Db 1545 CACAGTGATCGTGGACAGCACCGTGGGAAAGACACTTTGTTCTTATCACCTGGACACAC 1604  
QY 181 GCAGCTCCCAAAATCCTTCTCTGGGATCCCAAGTGGAC 218  
Db 1605 GCAGCTCCCAAAATCCTTCTCTGGGATCCCAAGTGGAC 1642

## RESULT 10

US-09-764-868-22  
; Sequence 22, Application US/09764868  
; Patent No. US20020168711A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PT232  
; CURRENT APPLICATION NUMBER: US/09/764,868  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 1510  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 22  
; LENGTH: 3267  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-764-868-22

Query Match 100.0%; Score 218; DB 9; Length 3267;  
Best Local Similarity 100.0%; Pred. No. 9.7e-69;  
Matches 218; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GAACAATGGCCTCATTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCA 60  
Db 1426 GAACAATGGCCTCATTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCA 1485  
QY 61 GCGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAGCTGGATGAATGG 120  
Db 1486 GCGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAGCTGGATGAATGG 1545  
QY 121 CACAGTGATCGTGGACAGCACCGTGGGAAAGACACTTTGTTCTTATCACCTGGACACAC 180  
Db 1546 CACAGTGATCGTGGACAGCACCGTGGGAAAGACACTTTGTTCTTATCACCTGGACACAC 1605  
QY 181 GCAGCTCCCAAAATCCTTCTCTGGGATCCCAAGTGGAC 218  
Db 1606 GCAGCTCCCAAAATCCTTCTCTGGGATCCCAAGTGGAC 1643

## RESULT 11

US-09-922-217-1056  
; Sequence 1056, Application US/09922217  
; Patent No. US20020076414A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather

```
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolck, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1056
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-922-217-1056

Query Match      100.0%; Score 218; DB 9; Length 3311;
Best Local Similarity 100.0%; Pred. No. 9.7e-69;
Matches 218; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  GAACATGGCCTCATTGATGCTTTTGGGGCCCTTTCATCAGGAATGGAGCTGTCTCTCA 60
DB      1743 GAACATGGCCTCATTGATGCTTTTGGGGCCCTTTCATCAGGAATGGAGCTGTCTCTCA 1802

QY      61  GGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGG 120
DB      1803 GGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGG 1862

QY      121  CACAGTGATCGTGACAGCAGCCGTGGAAAGGACACTTTTGTCTTATCACCTGGACAAC 180
DB      1863 CACAGTGATCGTGACAGCAGCCGTGGAAAGGACACTTTTGTCTTATCACCTGGACAAC 1922

QY      181  GCAGCCTCCCAAAATCCTTCTCTGGGATCCCACTGGAC 218
DB      1923 GCAGCCTCCCAAAATCCTTCTCTGGGATCCCACTGGAC 1960

RESULT 13
US-10-025-380-1056
; Sequence 1056, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolck, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick Thomas S.
; APPLICANT: Carter, Darrick
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C14
; CURRENT APPLICATION NUMBER: US/10/025,380
; CURRENT FILING DATE: 2001-12-19
; NUMBER OF SEQ ID NOS: 1129
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1056
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-025-380-1056

Query Match      100.0%; Score 218; DB 14; Length 3311;
Best Local Similarity 100.0%; Pred. No. 9.7e-69;
Matches 218; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  GAACATGGCCTCATTGATGCTTTTGGGGCCCTTTCATCAGGAATGGAGCTGTCTCTCA 60
DB      1743 GAACATGGCCTCATTGATGCTTTTGGGGCCCTTTCATCAGGAATGGAGCTGTCTCTCA 1802

QY      61  GGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGG 120
DB      1803 GGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGG 1862

QY      121  CACAGTGATCGTGACAGCAGCCGTGGAAAGGACACTTTTGTCTTATCACCTGGACAAC 180
DB      1863 CACAGTGATCGTGACAGCAGCCGTGGAAAGGACACTTTTGTCTTATCACCTGGACAAC 1922

QY      181  GCAGCCTCCCAAAATCCTTCTCTGGGATCCCACTGGAC 218
DB      1923 GCAGCCTCCCAAAATCCTTCTCTGGGATCCCACTGGAC 1960

RESULT 14
US-10-393-590-11
; Sequence 11, Application US/10393590
; Publication No. US20030190656A1
; GENERAL INFORMATION:
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APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 11  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-590-11

Query Match 100.0%; Score 218; DB 15; Length 3311;  
Best Local Similarity 100.0%; Pred. No. 9.7e-69;  
Matches 218; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GAACAATGGCCTCATTGATGCTTTTGGGGCCCTTTTCATCAGGAATGGAGCTGTCTCTCA 60  
Db 1743 GAACAATGGCCTCATTGATGCTTTTGGGGCCCTTTTCATCAGGAATGGAGCTGTCTCTCA 1802  
QY 61 GCGCTCCATCCAGCTTGAGAGTAAGGGATTAAACCTCCAGAACAGCCAGTGGATGAATGG 120  
Db 1803 GCGCTCCATCCAGCTTGAGAGTAAGGGATTAAACCTCCAGAACAGCCAGTGGATGAATGG 1862  
QY 121 CACAGTGATCGTGGACAGCACCGTGGGAAAGACACTTTGTTTCTTATCACCTGGACAAAC 180  
Db 1863 CACAGTGATCGTGGACAGCACCGTGGGAAAGACACTTTGTTTCTTATCACCTGGACAAAC 1922  
QY 181 GCAGCCTCCCAAAATCCTTCTCTGGGATCCAGTGGAC 218  
Db 1923 GCAGCCTCCCAAAATCCTTCTCTGGGATCCAGTGGAC 1960

RESULT 15  
US-10-393-590-12  
; Sequence 12, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 12  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-590-12

Query Match 100.0%; Score 218; DB 15; Length 3311;  
Best Local Similarity 100.0%; Pred. No. 9.7e-69;  
Matches 218; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GAACAATGGCCTCATTGATGCTTTTGGGGCCCTTTTCATCAGGAATGGAGCTGTCTCTCA 60  
Db 1743 GAACAATGGCCTCATTGATGCTTTTGGGGCCCTTTTCATCAGGAATGGAGCTGTCTCTCA 1802  
QY 61 GCGCTCCATCCAGCTTGAGAGTAAGGGATTAAACCTCCAGAACAGCCAGTGGATGAATGG 120  
Db 1803 GCGCTCCATCCAGCTTGAGAGTAAGGGATTAAACCTCCAGAACAGCCAGTGGATGAATGG 1862  
QY 121 CACAGTGATCGTGGACAGCACCGTGGGAAAGACACTTTGTTTCTTATCACCTGGACAAAC 180  
Db 1863 CACAGTGATCGTGGACAGCACCGTGGGAAAGACACTTTGTTTCTTATCACCTGGACAAAC 1922  
QY 181 GCAGCCTCCCAAAATCCTTCTCTGGGATCCAGTGGAC 218

Db 1923 GCAGCCTCCCAAAATCCTTCTCTGGGATCCAGTGGAC 1960  
Search completed: April 24, 2004, 06:38:12  
Job time : 116.665 secs

GenCore version 5.1.6  
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OM nucleic - protein search, using frame\_plus\_n2p model

Run on: April 21, 2004, 16:13:49 ; Search time 31.3856 Seconds  
(without alignments) 0  
3840.718 Million cell updates/sec

Title: US-09-049-696-9  
Perfect score: 418  
Sequence: 1 GAACAATGGCCTCATTTGATG.....TCTCTGGGATCCAGTGGAC 218

Scoring table: BLOSUM62  
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Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 1133595 seqs, 276475211 residues

Total number of hits satisfying chosen parameters: 2267190

Minimum DB seq length: 0  
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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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Database :

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- 2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*
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- 9: /cgn2\_6/ptodata/2/pubpaa/US09A\_PUBCOMB.pep.\*
- 10: /cgn2\_6/ptodata/2/pubpaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep.\*
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- 14: /cgn2\_6/ptodata/2/pubpaa/US10B\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pep.\*
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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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1	374	89.5	552	14	US-10-106-698-4628	Sequence 4628, Ap
2	374	89.5	869	14	US-10-106-698-6388	Sequence 6388, Ap
3	374	89.5	914	9	US-09-823-356-8	Sequence 8, Appli
4	374	89.5	914	9	US-09-922-217-1066	Sequence 1066, Ap
5	374	89.5	914	9	US-09-833-263-1066	Sequence 1066, Ap
6	374	89.5	914	9	US-09-981-353-192	Sequence 192, App
7	374	89.5	914	11	US-09-833-245-2054	Sequence 2054, Ap
8	374	89.5	914	13	US-10-025-380-1066	Sequence 1066, Ap
9	374	89.5	914	14	US-10-055-4128-28	Sequence 28, Appli
10	374	89.5	914	14	US-10-270-595-6	Sequence 6, Appli
11	374	89.5	914	14	US-10-235-994-26	Sequence 42, Appli
12	374	89.5	914	14	US-10-060-255-42	Sequence 42, Appli
13	374	89.5	914	15	US-10-369-214-1133	Sequence 1133, App
14	374	89.5	925	9	US-09-764-868-635	Sequence 635, App
15	374	89.5	925	14	US-10-106-698-6248	Sequence 6248, Ap
16	313	74.9	913	14	US-10-270-595-2	Sequence 2, Appli
17	313	74.9	913	15	US-10-369-214-132	Sequence 132, App
18	291	69.6	917	9	US-09-981-353-54	Sequence 54, Appli
19	291	69.6	917	13	US-10-025-167-41	Sequence 41, Appli
20	291	69.6	917	14	US-10-235-994-16	Sequence 16, Appli
21	291	69.6	917	14	US-10-345-680-32	Sequence 32, Appli
22	291	69.6	917	15	US-10-369-214-134	Sequence 134, App
23	291	69.6	917	15	US-10-087-080-34	Sequence 34, Appli
24	291	69.6	919	9	US-09-989-722-379	Sequence 379, App
25	291	69.6	919	9	US-09-989-723-379	Sequence 379, App
26	291	69.6	919	9	US-09-989-279-379	Sequence 379, App
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31	291	69.6	919	9	US-09-990-442-379	Sequence 379, App
32	291	69.6	919	9	US-09-991-163-379	Sequence 379, App
33	291	69.6	919	9	US-09-993-604-379	Sequence 379, App
34	291	69.6	919	9	US-09-989-721-379	Sequence 379, App
35	291	69.6	919	9	US-09-989-721-379	Sequence 379, App
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38	291	69.6	919	9	US-09-989-735-379	Sequence 379, App
39	291	69.6	919	9	US-09-990-444-379	Sequence 379, App
40	291	69.6	919	9	US-09-991-181-379	Sequence 379, App
41	291	69.6	919	9	US-09-989-730-379	Sequence 379, App
42	291	69.6	919	9	US-09-990-436-379	Sequence 379, App
43	291	69.6	919	9	US-09-993-687-379	Sequence 379, App
44	291	69.6	919	10	US-09-989-734-379	Sequence 379, App
45	291	69.6	919	10	US-09-997-653-379	Sequence 379, App

ALIGNMENTS

RESULT 1

US-10-106-698-4628  
; Sequence 4628, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides

; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: Patentin Ver. 3.0  
; SEQ ID NO 4628  
; LENGTH: 552  
; TYPE: PRT  
; ORGANISM: Homo sapiens

US-10-106-698-4628

Alignment Scores:  
Pred. No.: 3 43e-37 Length: 552  
Score: 374.00 Matches: 72  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 89.47% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-9 (1-218) x US-10-106-698-4628 (1-552)

QY 2 AACATGGCTCATTCATGCTTTTGGGGCCCTTTCATCAGGAATGAGCTGTCTCTCAG 61  
Db 103 AsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGln 122  
QY 62 CGCTCCATCCAGCTTCAGAGTAAGGATTAACCTCCAGAACGCCAGTGGATGATGCG 121  
Db 123 ArgSerIleGlnLeuGluSerGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGly 142  
QY 122 ACAGTGATCGTGACAGCACCGTGGGAAAGGACACCTTTGTTCTTATCACCTGGACAACG 181  
Db 143 ThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThr 162  
QY 182 CAGCTCCCAAAATCCTTCTCTGGGATCCCAAGTGA 217  
Db 163 GlnProProGlnIleLeuLeuTrpAspProSerGly 174

RESULT 2  
US-10-106-698-6388  
; Sequence 6388, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; PRIOR FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: Patent In Ver. 3.0  
; SEQ ID NO 6388  
; LENGTH: 869  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: MISC\_FEATURE  
; LOCATION: (14)  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids

US-10-106-698-6388

Alignment Scores:  
Pred. No.: 3 73e-37 Length: 869  
Score: 374.00 Matches: 72  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 89.47% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-9 (1-218) x US-10-106-698-6388 (1-869)

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QY 62 CGCTCCATCCAGCTTCAGAGTAAGGATTAACCTCCAGAACGCCAGTGGATGATGCG 121  
Db 440 ArgSerIleGlnLeuGluSerGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGly 459  
QY 122 ACAGTGATCGTGACAGCACCGTGGGAAAGGACACCTTTGTTCTTATCACCTGGACAACG 181

Db 460 ThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThr 479  
QY 182 CAGCTCCCAAAATCCTTCTCTGGGATCCCAAGTGA 217  
Db 480 GlnProProGlnIleLeuLeuTrpAspProSerGly 491

RESULT 3  
US-09-823-356-8  
; Sequence 8, Application US/09823356  
; Patent No. US20010025098A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Kaser, Matthew R.  
; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
; FILE REFERENCE: PF-0489-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823,356  
; CURRENT FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/039,307  
; PRIOR FILING DATE: 1998 March 13  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PERL Program  
; SEQ ID NO 8  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775

US-09-823-356-8

Alignment Scores:  
Pred. No.: 3 77e-37 Length: 914  
Score: 374.00 Matches: 72  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 89.47% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-9 (1-218) x US-09-823-356-8 (1-914)

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QY 62 CGCTCCATCCAGCTTCAGAGTAAGGATTAACCTCCAGAACGCCAGTGGATGATGCG 121  
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QY 122 ACAGTGATCGTGACAGCACCGTGGGAAAGGACACCTTTGTTCTTATCACCTGGACAACG 181  
Db 505 ThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThr 524  
QY 182 CAGCTCCCAAAATCCTTCTCTGGGATCCCAAGTGA 217  
Db 525 GlnProProGlnIleLeuLeuTrpAspProSerGly 536

RESULT 4  
US-09-922-217-1066  
; Sequence 1066, Application US/09922217  
; Patent No. US20020076414A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather



APPLICANT: Benson, Darin R.  
APPLICANT: Meagher, Madeleine Joy  
APPLICANT: Stolk, John A.  
APPLICANT: Wang, Tongtong  
APPLICANT: Jiang, Yugu  
APPLICANT: Smith, Carole Lynn  
APPLICANT: King, Gordon E.  
APPLICANT: Wang, Aijun  
APPLICANT: Clapper, Jonathan D.  
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
FILE REFERENCE: 210121.471C13  
CURRENT APPLICATION NUMBER: US/09/922,217  
CURRENT FILING DATE: 2001-08-03  
NUMBER OF SEQ ID NOS: 1124  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 1066  
LENGTH: 914  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-922-217-1066

Alignment Scores:  
Pred. No.: 3,77e-37 Length: 914  
Score: 374.00 Matches: 72  
Percent Similarity: 100.00%  
Best Local Similarity: 100.00%  
Query Match: 89.47%  
Indels: 0  
Gaps: 0

US-09-049-696-9 (1-218) x US-09-922-217-1066 (1-914)

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DB 485 ArgSerIleGlnLeuGluSerGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGly 504

QY 122 ACAGTGATCGTGACAGCACCGTGGGAAGGACACTTCTTCTTATCAGTGGACAACG 181  
DB 505 ThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThr 524

QY 182 CAGCTCCCAAAATCCTTCTCTGGGATCCAGTGA 217  
DB 525 GlnProGlnIleLeuLeuTrpAspProSerGly 536

RESULT 5  
US-09-833-263-1066  
Sequence 1066, Application US/09833263  
Patent No. US20020110547A1  
GENERAL INFORMATION:  
APPLICANT: Wang, Aijun  
APPLICANT: Clapper, Jonathan D.  
APPLICANT: Stolk, John A.  
APPLICANT: Meagher, Madeleine J.  
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND  
TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE  
FILE REFERENCE: 210121.471C12  
CURRENT APPLICATION NUMBER: US/09/833,263  
CURRENT FILING DATE: 2001-04-10  
NUMBER OF SEQ ID NOS: 1093  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 1066  
LENGTH: 914  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-833-263-1066

Alignment Scores:  
Pred. No.: 3,77e-37 Length: 914  
Score: 374.00 Matches: 72

Percent Similarity: 100.00%  
Best Local Similarity: 100.00%  
Query Match: 89.47%  
Indels: 0  
Gaps: 0

US-09-049-696-9 (1-218) x US-09-833-263-1066 (1-914)

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DB 465 AaAnAnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGln 484

QY 62 CGCTCCATCCAGCTTGAGAGTAAGGATTAAACCTCCAGAACAGCCAGTGGATGATGCG 121  
DB 485 ArgSerIleGlnLeuGluSerGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGly 504

QY 122 ACAGTGATCGTGACAGCACCGTGGGAAGGACACTTCTTCTTATCAGTGGACAACG 181  
DB 505 ThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThr 524

QY 182 CAGCTCCCAAAATCCTTCTCTGGGATCCAGTGA 217  
DB 525 GlnProGlnIleLeuLeuTrpAspProSerGly 536

RESULT 6  
US-09-981-353-192  
Sequence 192, Application US/09981353  
Patent No. US20020160382A1  
GENERAL INFORMATION:  
APPLICANT: Lasek, Amy W.  
APPLICANT: Jones, David A.  
TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
FILE REFERENCE: PA-0038 US  
CURRENT APPLICATION NUMBER: US/09/981,353  
CURRENT FILING DATE: 2001-10-11  
NUMBER OF SEQ ID NOS: 194  
SOFTWARE: PERL Program  
SEQ ID NO 192  
LENGTH: 914  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc feature  
OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CD1  
US-09-981-353-192

Alignment Scores:  
Pred. No.: 3,77e-37 Length: 914  
Score: 374.00 Matches: 72  
Percent Similarity: 100.00%  
Best Local Similarity: 100.00%  
Query Match: 89.47%  
Indels: 0  
Gaps: 0

US-09-049-696-9 (1-218) x US-09-981-353-192 (1-914)

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QY 62 CGCTCCATCCAGCTTGAGAGTAAGGATTAAACCTCCAGAACAGCCAGTGGATGATGCG 121  
DB 485 ArgSerIleGlnLeuGluSerGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGly 504

QY 122 ACAGTGATCGTGACAGCACCGTGGGAAGGACACTTCTTCTTATCAGTGGACAACG 181  
DB 505 ThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThr 524

QY 182 CAGCTCCCAAAATCCTTCTCTGGGATCCAGTGA 217  
DB 525 GlnProGlnIleLeuLeuTrpAspProSerGly 536

RESULT 7  
US-09-833-245-2054

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; Sequence 2054, Application US/09833245
; Publication No. US2004010134A1
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; FILE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF546PCT
; CURRENT APPLICATION NUMBER: US/09/833,245
; CURRENT FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229, 358
; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256, 931
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/199, 384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 2267
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2054
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-833-245-2054

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Score: 374.00 Matches: 72
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 89.47% Indels: 0
DB: 11 Gaps: 0

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QY 62 CGCTCCATCCAGCTTGAGAGTAAGGATTAAACCTCCAGAACAGCCAGTGGATGAATGC 121
Db 485 ArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGly 504
QY 122 ACAGTGATCGTGACAGCACCGTGGAAAGGACATTTCTTTATCATCCTGGACAACG 181
Db 505 ThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThr 524
QY 182 CAGCTCCCAATCTCTCTGGATCCCACTGGA 217
Db 525 GlnProGlnIleLeuLeuTrpAspProSerGly 536

RESULT 8
US-10-025-380-1066
; Sequence 1066, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick Thomas S.
; APPLICANT: Carter, Darrick
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C14
; CURRENT APPLICATION NUMBER: US/10/025,380
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; CURRENT FILING DATE: 2001-12-19
; NUMBER OF SEQ ID NOS: 1129
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1066
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-025-380-1066

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Pred. No.: 3,77e-37 Length: 914
Score: 374.00 Matches: 72
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
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DB: 13 Gaps: 0

US-09-049-696-9 (1-218) x US-10-025-380-1066 (1-914)
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Db 465 AsnAenGlyLeuileAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGln 484
QY 62 CGCTCCATCCAGCTTGAGAGTAAGGATTAAACCTCCAGAACAGCCAGTGGATGAATGC 121
Db 485 ArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGly 504
QY 122 ACAGTGATCGTGACAGCACCGTGGAAAGGACATTTCTTTATCATCCTGGACAACG 181
Db 505 ThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThr 524
QY 182 CAGCTCCCAATCTCTCTGGATCCCACTGGA 217
Db 525 GlnProGlnIleLeuLeuTrpAspProSerGly 536

RESULT 9
US-10-055-412B-28
; Sequence 28, Application US/10055412B
; Publication No. US20030059861A1
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0058
; CURRENT APPLICATION NUMBER: US/10/055,412B
; CURRENT FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: US/09/193,562
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 28
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-055-412B-28

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Score: 374.00 Matches: 72
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 89.47% Indels: 0
DB: 14 Gaps: 0

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QY 62 CGCTCCATCCAGCTTGAGAGTAAGGATTAAACCTCCAGAACAGCCAGTGGATGAATGC 121
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Db 485 ArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGly 504  
QY 122 ACAGTGATCGTGACAGCACCGCTGGGAAGGACACTTTGTTCTTATCACCTGGACAACG 181  
Db 505 ThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThr 524  
QY 182 CAGCTCCCAAAATCCTTCTCTGGATCCAGTGGA 217  
Db 525 GlnProGlnIleLeuLeuTrpAspProSerGly 536  
RESULT 10  
US-10-270-595-6  
; Sequence 6, Application US/10270595  
; Publication No. US20030078409A1  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT FILING DATE: 2002-10-16  
; PRIOR FILING DATE: US/10/270,595  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
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; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
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Pred. No.: 3,77e-37 Length: 914  
Score: 374.00 Matches: 72  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 89.47% Indels: 0  
DB: 14 Gaps: 0  
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Db 465 AsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGln 484  
QY 62 CGCTCCATCCAGCTGAGAGTAAAGGATTAACCTCCAGAACAGCCAGTGATGAATGCC 121  
Db 485 ArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGly 504  
QY 122 ACAGTGATCGTGACAGCACCGCTGGGAAGGACACTTTGTTCTTATCACCTGGACAACG 181  
Db 505 ThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThr 524  
RESULT 11  
US-10-235-994-26  
; Sequence 26, Application US/10235994  
; Publication No. US20030101002A1  
; GENERAL INFORMATION:  
; APPLICANT: Bartha, Gabor  
; APPLICANT: Walker, Michael  
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS  
; FILE REFERENCE: ICYTP012  
; CURRENT FILING DATE: 2002-09-04  
; PRIOR FILING DATE: US/10/235,994  
; PRIOR APPLICATION NUMBER: US/10/003,608  
; PRIOR FILING DATE: 2001-11-01  
; PRIOR APPLICATION NUMBER: 60/245,081  
; PRIOR FILING DATE: 2000-11-01  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 26  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Human  
US-10-235-994-26  
Alignment Scores:  
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QY 2 AACATGGCCTCATTCATGCTTTTGGGGCCCTTTCATCAGGAATGGAGCTGTCTCTCAG 61  
Db 465 AsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGln 484  
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Db 505 ThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThr 524  
RESULT 12  
US-10-060-255-42  
; Sequence 42, Application US/10060255  
; Publication No. US20030113840A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 25 Human secreted proteins  
; FILE REFERENCE: P2042P1  
; CURRENT FILING DATE: 2002-02-01  
; PRIOR FILING DATE: 2001-02-13  
; PRIOR APPLICATION NUMBER: 09/781,417  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: PCT/US00/22325  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: 60/149,182  
; PRIOR FILING DATE: 1999-08-17  
; NUMBER OF SEQ ID NOS: 86  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 42  
; LENGTH: 914

QY 182 CAGCTCCCAAAATCCTTCTCTGGATCCAGTGGA 217  
Db 525 GlnProGlnIleLeuLeuTrpAspProSerGly 536  
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; Sequence 26, Application US/10235994  
; Publication No. US20030101002A1  
; GENERAL INFORMATION:  
; APPLICANT: Bartha, Gabor  
; APPLICANT: Walker, Michael  
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS  
; FILE REFERENCE: ICYTP012  
; CURRENT FILING DATE: 2002-09-04  
; PRIOR FILING DATE: US/10/235,994  
; PRIOR APPLICATION NUMBER: US/10/003,608  
; PRIOR FILING DATE: 2001-11-01  
; PRIOR APPLICATION NUMBER: 60/245,081  
; PRIOR FILING DATE: 2000-11-01  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 26  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Human  
US-10-235-994-26  
Alignment Scores:  
Pred. No.: 3,77e-37 Length: 914  
Score: 374.00 Matches: 72  
Percent Similarity: 100.00% Conservative: 0  
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Query Match: 89.47% Indels: 0  
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QY 2 AACATGGCCTCATTCATGCTTTTGGGGCCCTTTCATCAGGAATGGAGCTGTCTCTCAG 61  
Db 465 AsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGln 484  
QY 62 CGCTCCATCCAGCTGAGAGTAAAGGATTAACCTCCAGAACAGCCAGTGATGAATGCC 121  
Db 485 ArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGly 504  
QY 122 ACAGTGATCGTGACAGCACCGCTGGGAAGGACACTTTGTTCTTATCACCTGGACAACG 181  
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US-10-060-255-42  
; Sequence 42, Application US/10060255  
; Publication No. US20030113840A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 25 Human secreted proteins  
; FILE REFERENCE: P2042P1  
; CURRENT FILING DATE: 2002-02-01  
; PRIOR FILING DATE: 2001-02-13  
; PRIOR APPLICATION NUMBER: 09/781,417  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: PCT/US00/22325  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: 60/149,182  
; PRIOR FILING DATE: 1999-08-17  
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; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 42  
; LENGTH: 914

[illegible]

; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 6248  
; LENGTH: 925  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-106-698-6248

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Score: 374.00 Matches: 72  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 89.47% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-9 (1-218) x US-10-106-698-6248 (1-925)

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Db	496	ArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGly	515
Qy	122	ACAGTGATCGTGACAGCACCGTGGGAAAGGACATTTGTTCTTATCATCCTGGACAACG	181
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Perfect score: 418  
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Listing first 45 summaries

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SUMMARIES

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2	374	89.5	914	4	US-09-623-624-6
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4	291	69.6	917	4	US-09-049-698-41
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6	222	53.1	903	4	US-09-623-624-18
7	219	52.4	1000	4	US-09-193-562D-30
8	212	50.7	902	4	US-09-193-562D-34
9	202	48.3	795	4	US-09-193-562D-11
10	202	48.3	821	4	US-09-193-562D-12
11	202	48.3	905	4	US-09-193-562D-2
12	187.5	44.9	592	4	US-09-643-597-169

13	187.5	44.9	592	4	US-09-480-884A-169	Sequence 169, App
14	187.5	44.9	592	4	US-09-542-615A-169	Sequence 169, App
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16	187.5	44.9	791	4	US-09-643-597-170	Sequence 170, App
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19	187.5	44.9	791	4	US-09-606-421B-170	Sequence 170, App
20	187.5	44.9	920	4	US-09-643-597-357	Sequence 357, App
21	187.5	44.9	942	4	US-09-919-172-87	Sequence 87, Appl
22	187.5	44.9	943	4	US-09-643-597-161	Sequence 161, App
23	187.5	44.9	943	4	US-09-480-884A-161	Sequence 161, App
24	187.5	44.9	943	4	US-09-542-615A-161	Sequence 161, App
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26	187.5	44.9	943	4	US-09-623-624-4	Sequence 4, Appll
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31	67	16.0	370	4	US-09-107-532A-5920	Sequence 5920, Ap
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33	66	15.8	1021	4	US-09-252-991A-27405	Sequence 27405, A
34	64.5	15.4	400	2	US-08-713-298B-2	Sequence 2, Appli
35	64.5	15.4	400	2	US-08-870-180B-2	Sequence 2, Appli
36	64.5	15.4	400	3	US-08-814-052-4	Sequence 4, Appll
37	64.5	15.4	400	3	US-08-812-829-4	Sequence 4, Appll
38	64.5	15.4	400	3	US-09-226-529-2	Sequence 2, Appll
39	64.5	15.4	462	2	US-08-870-180B-13	Sequence 13, Appl
40	64.5	15.4	462	3	US-09-226-529-13	Sequence 13, Appl
41	64	15.3	694	4	US-09-252-991A-32733	Sequence 32733, A
42	63.5	15.2	20	4	US-09-643-597-234	Sequence 234, App
43	63.5	15.2	20	4	US-09-480-884A-234	Sequence 234, App
44	63.5	15.2	20	4	US-09-542-615A-234	Sequence 234, App
45	63.5	15.2	20	4	US-09-606-421B-234	Sequence 234, App

ALIGNMENTS

RESULT 1  
US-09-193-562D-28  
; Sequence 28, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedict U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 28  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-193-562D-28

Alignment Scores:	4.41e-40	Length:	914
Pred. No.:	374.00	Matches:	72
Score:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	89.47%	Indels:	0
DB:	4	Gaps:	0
US-09-049-696-9 (1-218) x US-09-193-562D-28 (1-914)			
QY	2	AAACAATGGCCTCATTTGCGCCCTTTCATCAGGAATAGGAGTGTCTCTCAG	61
Db	465	AnnAnGlyLeuLeuAspAlaPheGlyAlaLeuSerSerGlyAnGlyAlaValSerGln	484
QY	62	CGCTCCATCCAGCTTGAGATGAAGGATTAAACCTCCAGAACGCCAGTGGATGATGCG	121

Db 485 ArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGly 504  
QY 122 ACAGTGATCGTCGACAGCCGTCGGAGGACACTTTCTTATCACCTGGACAACG 181  
Db 505 ThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThr 524  
QY 182 CAGCTCCCAAACTCTCTCTGGGATCCAGTGGA 217  
Db 525 GlnProGlnLeuLeuTrpAspProSerGly 536

RESULT 2  
US-09-623-624-6  
; Sequence 6, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-623-624-6

Alignment Scores:  
Pred. No.: 4,41e-40 Length: 914  
Score: 374.00 Matches: 72  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 89.47% Indels: 0  
Gaps: 0  
DB: 4

US-09-049-696-9 (1-218) x US-09-623-624-6 (1-914)

QY 2 AACATGGCTCATTTGATGCTTTTGGGCCCTTTTCATCAGGAATGGAGCTGTCTCTAG 61  
Db 465 AsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGln 484  
QY 62 CGCTCCATCCAGCTTGAGAGTAAAGGATTAACCTCCAGAACAGCCAGTGGATGATGC 121  
Db 485 ArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGly 504  
QY 122 ACAGTGATCGTCGACAGCCGTCGGAGGACACTTTGTTTCTTATCACCTGGACAACG 181

Db 505 ThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThr 524  
QY 182 CAGCTCCCAAACTCTCTCTGGGATCCAGTGGA 217  
Db 525 GlnProGlnLeuLeuTrpAspProSerGly 536

RESULT 3  
US-09-623-624-2  
; Sequence 2, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2  
; LENGTH: 913  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-09-623-624-2

Alignment Scores:  
Pred. No.: 3,84e-32 Length: 913  
Score: 313.00 Matches: 56  
Percent Similarity: 90.28% Conservative: 9  
Best Local Similarity: 77.78% Mismatches: 7  
Query Match: 74.88% Indels: 0  
Gaps: 0  
DB: 4

US-09-049-696-9 (1-218) x US-09-623-624-2 (1-913)

QY 2 AACATGGCTCATTTGATGCTTTTGGGCCCTTTTCATCAGGAATGGAGCTGTCTCTAG 61  
Db 466 AsnAsnGlyLeuValAspAlaPheAlaLeuSerSerGlyAsnAlaIleAlaGln 485  
QY 62 CGCTCCATCCAGCTTGAGAGTAAAGGATTAACCTCCAGAACAGCCAGTGGATGATGC 121  
Db 486 HisSerIleGlnLeuGluSerArgGlyValAsnLeuGlnAsnGlnTrpMetAsnGly 505  
QY 122 ACAGTGATCGTCGACAGCCGTCGGAGGACACTTTGTTTCTTATCACCTGGACAACG 181  
Db 506 SerValIleValAspSerSerValGlyLysAspThrLeuPheLeuIleThrTrpThr 525



QY 182 CAGCTCCCAATCCTTCTCTGGATCCAGTGA 217  
Db 526 HieProThrilePheileTrpAspProSerGly 537

## RESULT 4

US-09-049-698-41  
; Sequence 41, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLASS, MICHAEL R.  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; TITLE OF INVENTION: TRACT  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park  
; STATE: IL  
; COUNTRY: USA  
; ZIP: 60064-3500  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/049,698  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/828,856  
; FILING DATE: 31-MAR-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Becker, Cheryl L.  
; REGISTRATION NUMBER: 35,441  
; REFERENCE/DOCKET NUMBER: 6068.US.P1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 847/935-1729  
; TELEFAX: 847/938-2623  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 41:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 917 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: No. 6368792e

US-09-049-698-41  
Alignment Scores:  
Pred. No.: 2,81e-29 Length: 917  
Score: 291.00 Matches: 54  
Percent Similarity: 86.11% Conservative: 8  
Best Local Similarity: 75.00% Mismatches: 10  
Query Match: 69.62% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-9 (1-218) x US-09-049-698-41 (1-917)  
QY 2 AACATGGCTCATTTCTTGGGCGCTTTCATCAGGAATGAGTGTCTCTCAG 61  
Db 466 AsnAsnGlyLeuLeuAspAlaPheGlyAlaLeuThrSerGlyAsnThrAspLeuSerGln 485

QY 62 CGCTCCATCCAGCTTGAGAGTAAGGGATTAAACCTCCAGAACAGCCAGTGGATGATGC 121

Db 486 LysSerLeuGlnLeuGluSerLysGlyLeuThrLeuAsnSerAsnAlaTrpMetAsnAsp 505  
QY 122 ACAGTGTATCGTGACAGCACCGTGGAAAGACACTTTGTTCTTATCCTACCTGACACAG 181  
Db 506 ThrValleileAspSerThrValGlyLysAspThrPhePheLeuileThrTrpAsnSer 525

## RESULT 5

US-09-193-562D-46  
; Sequence 46, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 46  
; LENGTH: 903  
; TYPE: PRT  
; ORGANISM: Unknown  
; FEATURE:  
; OTHER INFORMATION: Calcium sensitive chloride channel from bovine tracheal  
; OTHER INFORMATION: epithelium (Cunningham et al., 1995, J. Biol Chem., 270:31016-  
US-09-193-562D-46

Alignment Scores:  
Pred. No.: 2.68e-20 Length: 903  
Score: 222.00 Matches: 39  
Percent Similarity: 77.46% Conservative: 16  
Best Local Similarity: 54.93% Mismatches: 16  
Query Match: 53.11% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-9 (1-218) x US-09-193-562D-46 (1-903)

QY 5 AATGGCTCATTCATGATGCTTTGGGCGCTTTCATCAGGAATGAGTGTCTCTCAGCGC 64  
Db 467 AsnGlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIleThrGlnGln 486

QY 65 TCATCCAGCTTGAGAGTAAGGGATTAAACCTCCAGAACAGCCAGTGGATGAGTGGACCA 124  
Db 487 ThrileGlnLeuGluSerLysAlaLeuAlaileThrGluLysLysTrpValAsnGlyThr 506

QY 125 GTGATCGTGACAGCACCGTGGAAAGACACTTTGTTCTTATCCTACCTGACACAGCAG 184  
Db 507 ValProValAspSerThrileGlyAsnAspThrPhePheValThrTrpThrileLys 526

QY 185 CCTCCCAATCCTTCTCTGGATCCAGTGA 217

Db 527 LysProGluileLeuLeuGlnAspProLysGly 537

## RESULT 6

US-09-623-624-18  
; Sequence 18, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06



```
QY 185 CTCTCCCAATCTCTCTGGGATCCAGTGGA 217
Db 527 LysProGluIleLeuGlnAspProLysGly 537
|||:|||||:|||||
|||:|||||:|||||

RESULT 9
US-09-193-562D-11
; Sequence 11, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 11
; LENGTH: 795
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-11

Alignment Scores:
Pred. No.: 1,04e-17 Length: 795
Score: 202.00 Matches: 38
Percent Similarity: 75.71% Conservative: 15
Best Local Similarity: 54.29% Mismatches: 17
Query Match: 48.33% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-9 (1-218) x US-09-193-562D-11 (1-795)
QY 8 GGCCTCATTGATGCTTTTGGGCCCTTTTCATCAGGAATGGAGCTCTCTCTCAGCGCTCC 67
|||:|||||:|||||
|||:|||||:|||||
Db 469 GlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIleThrGlnGlnAla 488
|||:|||||:|||||
|||:|||||:|||||
QY 68 ATCCAGCTTGAGAGTAAGGATTAAACCTCCAGAACAGCCAGTGGATGAATGCCACAGTG 127
|||:|||||:|||||
|||:|||||:|||||
Db 489 IleGlnLeuGluSerLysAlaLeuIleThrGlyArgLysArgValaenGlyThrVal 508
|||:|||||:|||||
|||:|||||:|||||
QY 128 ATCTGGAGCAGACCGCTGGGAAAGGACACTTTGTTTCTTATCACCTGGGACACGACGCT 187
|||:|||||:|||||
|||:|||||:|||||
Db 509 ProValaspSerThrValGlyAsnAspThrPhePheValValThrTrpThrIleGlnLys 528
|||:|||||:|||||
|||:|||||:|||||
QY 188 CCCCAATCTCTCTGGGATCCAGTGGA 217
Db 529 ProGluIleValleuGlnAspProLysGly 538
|||:|||||:|||||
|||:|||||:|||||

RESULT 10
US-09-193-562D-12
; Sequence 12, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 12
; LENGTH: 821
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-12
```

```
Alignment Scores:
Pred. No.: 1,05e-17 Length: 821
Score: 202.00 Matches: 38
Percent Similarity: 75.71% Conservative: 15
Best Local Similarity: 54.29% Mismatches: 17
Query Match: 48.33% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-9 (1-218) x US-09-193-562D-12 (1-821)
QY 8 GGCCTCATTGATGCTTTTGGGCCCTTTTCATCAGGAATGGAGCTCTCTCTCAGCGCTCC 67
|||:|||||:|||||
|||:|||||:|||||
Db 469 GlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIleThrGlnGlnAla 488
|||:|||||:|||||
|||:|||||:|||||
QY 68 ATCCAGCTTGAGAGTAAGGATTAAACCTCCAGAACAGCCAGTGGATGAATGCCACAGTG 127
|||:|||||:|||||
|||:|||||:|||||
Db 489 IleGlnLeuGluSerLysAlaLeuIleThrGlyArgLysArgValaenGlyThrVal 508
|||:|||||:|||||
|||:|||||:|||||
QY 128 ATCTGGAGCAGACCGCTGGGAAAGGACACTTTGTTTCTTATCACCTGGGACACGACGCT 187
|||:|||||:|||||
|||:|||||:|||||
Db 509 ProValaspSerThrValGlyAsnAspThrPhePheValValThrTrpThrIleGlnLys 528
|||:|||||:|||||
|||:|||||:|||||
QY 188 CCCCAATCTCTCTGGGATCCAGTGGA 217
Db 529 ProGluIleValleuGlnAspProLysGly 538
|||:|||||:|||||
|||:|||||:|||||

RESULT 11
US-09-193-562D-2
; Sequence 2, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 2
; LENGTH: 905
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells
US-09-193-562D-2
```

```
Alignment Scores:
Pred. No.: 1,08e-17 Length: 905
Score: 202.00 Matches: 38
Percent Similarity: 75.71% Conservative: 15
Best Local Similarity: 54.29% Mismatches: 17
Query Match: 48.33% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-9 (1-218) x US-09-193-562D-2 (1-905)
QY 8 GGCCTCATTGATGCTTTTGGGCCCTTTTCATCAGGAATGGAGCTCTCTCTCAGCGCTCC 67
|||:|||||:|||||
|||:|||||:|||||
Db 469 GlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIleThrGlnGlnAla 488
|||:|||||:|||||
|||:|||||:|||||
QY 68 ATCCAGCTTGAGAGTAAGGATTAAACCTCCAGAACAGCCAGTGGATGAATGCCACAGTG 127
|||:|||||:|||||
|||:|||||:|||||
Db 489 IleGlnLeuGluSerLysAlaLeuIleThrGlyArgLysArgValaenGlyThrVal 508
|||:|||||:|||||
|||:|||||:|||||
QY 128 ATCTGGAGCAGACCGCTGGGAAAGGACACTTTGTTTCTTATCACCTGGGACACGACGCT 187
|||:|||||:|||||
|||:|||||:|||||
Db 509 ProValaspSerThrValGlyAsnAspThrPhePheValValThrTrpThrIleGlnLys 528
|||:|||||:|||||
|||:|||||:|||||
QY 188 CCCCAATCTCTCTGGGATCCAGTGGA 217
Db 529 ProGluIleValleuGlnAspProLysGly 538
|||:|||||:|||||
|||:|||||:|||||
```

```
Db 529 ProGluLeuValLeuGlnAspProLysGly 538
RESULT 12
US-09-643-597-169
; Sequence 169, Application US/09643597
; Patent No. 6426072
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D. S.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Alijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Henderson, Robert A.
; APPLICANT: McNeill, Patricia D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.455C11
; CURRENT APPLICATION NUMBER: US/09/643,597
; CURRENT FILING DATE: 2000-08-21
; NUMBER OF SEQ ID NOS: 369
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 169
; LENGTH: 592
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-643-597-169
Alignment Scores:
Pred. No.: 7,36e-16 Length: 592
Score: 187.50 Matches: 36
Percent Similarity: 69.86% Conservative: 15
Best Local Similarity: 49.32% Mismatches: 21
Query Match: 44.86% Indels: 1
DB: 4 Gaps: 1
US-09-049-696-9 (1-218) x US-09-643-597-169 (1-592)
QY 2 AACATGGCCTCATTCATGCTTTTGGGGCCCTTTTCATCAGGAATGGAGCTGTCTCTCAG 61
Db 473 SerAsnSerMetIleAspAlaPheSerArgIleSerSerGlyThrGlyAspIlePheGln 492
QY 62 CGCTCCATCCAGCTTGAGAGTAAGGATTAAACCTCCAGAACAGCCAGTGATGAATGCG 121
Db 493 GlnHisIleGlnLeuGluSerThrGlyGluAsnValLysProHisGlnLeuLysAsn 512
QY 122 ACAGTGATCGTGACAGCAGCCGCGGGAAGGACACTTTGTTTCTTATCACCTGG---ACA 178
Db 513 ThrValThrValAspAsnThrValGlyAsnAspThrMetPheLeuValThrTrpGlnAla 532
QY 179 ACGCAGCCTCCCAATCCTTCTCTGGGATCCAGTGGA 217
Db 533 SerGlyProGluIleLeuPheAspProAspGly 545
RESULT 13
US-09-480-884A-169
; Sequence 169, Application US/09480884A
; Patent No. 6482597
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Hosken, Nancy A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455C6
; CURRENT APPLICATION NUMBER: US/09/480,884A
; CURRENT FILING DATE: 2001-08-27
; NUMBER OF SEQ ID NOS: 330
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US-09-542-615A-169
; Sequence 169, Application US/09542615A
; Patent No. 6518256
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy A.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455C8
; CURRENT APPLICATION NUMBER: US/09/542,615A
; CURRENT FILING DATE: 2000-04-14
; NUMBER OF SEQ ID NOS: 350
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 169
; LENGTH: 592
; TYPE: PRT
; ORGANISM: Homo sapien
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QY 2 AACATGGCCTCATTCATGCTTTTGGGGCCCTTTTCATCAGGAATGGAGCTGTCTCTCAG 61
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; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 169
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; ORGANISM: Homo sapien
US-09-480-884A-169
Alignment Scores:
Pred. No.: 7,36e-16 Length: 592
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Best Local Similarity: 49.32% Mismatches: 21
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DB: 4 Gaps: 1
US-09-049-696-9 (1-218) x US-09-480-884A-169 (1-592)
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RESULT 14
US-09-542-615A-169
; Sequence 169, Application US/09542615A
; Patent No. 6518256
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy A.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455C8
; CURRENT APPLICATION NUMBER: US/09/542,615A
; CURRENT FILING DATE: 2000-04-14
; NUMBER OF SEQ ID NOS: 350
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 169
; LENGTH: 592
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-542-615A-169
Alignment Scores:
Pred. No.: 7,36e-16 Length: 592
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Percent Similarity: 69.86% Conservative: 15
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QY 2 AACATGGCCTCATTCATGCTTTTGGGGCCCTTTTCATCAGGAATGGAGCTGTCTCTCAG 61
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Db 493 GlnHisIleGlnLeuGluSerThrGlyGluAsnValLysProHisGlnLeuLysAsn 512
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Db 513 ThrValThrValAspAsnThrValGlyAsnAspThrMetPheLeuValThrTrpGlnAla 532
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GenCore version 5.1.6  
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Searched: 2907579 seqs, 2254313464 residues 5815158

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications NA.\*  
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18: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq.\*  
19: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	253	100.0	1512	16	US-10-305-720-850
2	253	100.0	2745	15	US-10-270-595-5
3	253	100.0	2854	15	US-10-106-698-1971
4	253	100.0	2867	15	US-10-106-698-351
5	253	100.0	3007	15	US-10-055-412B-27
6	253	100.0	3109	15	US-10-106-698-2111
7	253	100.0	3111	9	US-09-823-356-25
8	253	100.0	3111	9	US-09-981-353-191
9	253	100.0	3111	15	US-10-235-994-25
10	253	100.0	3267	9	US-09-764-868-22
11	253	100.0	3311	9	US-09-922-217-1056
12	253	100.0	3311	9	US-09-833-263-1056
13	253	100.0	3311	14	US-10-025-380-1056
14	253	100.0	3311	15	US-10-393-590-11

15	253	100.0	3311	15	US-10-393-590-12	Sequence 12, Appl
16	253	100.0	3311	15	US-10-393-590-46	Sequence 46, Appl
17	253	100.0	3311	15	US-10-393-590-47	Sequence 47, Appl
18	253	100.0	3311	15	US-10-393-567-11	Sequence 11, Appl
19	253	100.0	3311	15	US-10-393-567-12	Sequence 12, Appl
20	253	100.0	3311	15	US-10-393-567-46	Sequence 46, Appl
21	253	100.0	3311	15	US-10-393-567-47	Sequence 47, Appl
22	253	100.0	3311	15	US-10-394-087-11	Sequence 11, Appl
23	253	100.0	3311	15	US-10-394-087-12	Sequence 12, Appl
24	253	100.0	3311	15	US-10-394-087-46	Sequence 46, Appl
25	253	100.0	3311	15	US-10-394-087-47	Sequence 47, Appl
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27	253	100.0	4569	13	US-10-276-115-3	Sequence 3, Appl
28	223.8	88.5	527	15	US-10-066-543-3111	Sequence 2111, Ap
29	183	72.3	544	15	US-10-066-543-2349	Sequence 2349, Ap
30	174.6	69.0	2931	15	US-10-270-595-1	Sequence 1, Appl
31	136.2	53.8	2754	15	US-10-345-680-33	Sequence 33, Appl
32	136.2	53.8	3043	14	US-10-025-167-16	Sequence 16, Appl
33	136.2	53.8	3169	9	US-09-981-353-53	Sequence 53, Appl
34	136.2	53.8	3169	15	US-10-235-994-15	Sequence 15, Appl
35	136.2	53.8	3181	14	US-10-025-167-18	Sequence 18, Appl
36	136.2	53.8	3195	10	US-09-867-034-22	Sequence 22, Appl
37	136.2	53.8	3195	13	US-10-276-115-22	Sequence 22, Appl
38	136.2	53.8	3196	15	US-10-158-646-39	Sequence 39, Appl
39	136.2	53.8	3199	13	US-10-276-774-993	Sequence 993, App
40	136.2	53.8	3204	15	US-10-345-680-31	Sequence 31, Appl
41	136.2	53.8	3207	15	US-10-101-510-660	Sequence 660, App
42	136.2	53.8	3218	16	US-10-087-080-33	Sequence 33, Appl
43	136.2	53.8	3265	9	US-09-989-722-378	Sequence 378, App
44	136.2	53.8	3265	9	US-09-989-723-378	Sequence 378, App
45	136.2	53.8	3265	9	US-09-989-279-378	Sequence 378, App

ALIGNMENTS

RESULT 1  
US-10-305-720-850  
; Sequence 850, Application US/10305720  
; Publication No. US20040010136A1  
; GENERAL INFORMATION:  
; APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J.  
; TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expression  
; FILE REFERENCE: PA-0002-1 CON  
; CURRENT APPLICATION NUMBER: US/10/305,720  
; CURRENT FILING DATE: 2002-11-26  
; PRIOR APPLICATION NUMBER: 09/016,434  
; PRIOR FILING DATE: 1998-01-30  
; NUMBER OF SEQ ID NOS: 1490  
; SOFTWARE: PERL Program  
; SEQ ID NO 850  
; LENGTH: 1512  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20040010136A1 608819  
US-10-305-720-850

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Gaps	0;						
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Db	1	AACAAAGTGGTCCATCATC	CACACAGTCGGCTTTGGGGCCCTCTCAGCTCAAGAACTAG	60			
Qy	61	AGGAGCTGTCCAAAATGACAGAGG	TTTACAGACATATGCTTTCAGATCAAGTTCAAGAAC	120			
Db	61	AGGAGCTGTCCAAAATGACAGAGG	TTTACAGACATATGCTTTCAGATCAAGTTCAAGAAC	120			
Qy	121	ATGGCCTCATTTGATGCTTTTGGGGCCCTTTT	CATCAGGAAATGGAGCTGTCTCTCAGCGCT	180			
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Db 181 CCATCCAGCTTCAGAGTAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGCGACAG 240  
QY 241 TGATCGTGGACAG 253  
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## RESULT 2

US-10-270-595-5  
; Sequence 5, Application US/10270595  
; Publication No. US20030078409A1  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; CURRENT FILING DATE: 2002-10-16  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 2745  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(2742)  
US-10-270-595-5

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QY 61 AGGAGCTGTCCAAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAA 120  
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Db 1397 ATGGCCTCATTGATGCTTTTGGGGCCCTTTTCATCAGGAATGAGCTGTCTCTCAGCGCT 1456  
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Db 1457 CCATCCAGCTTCAGAGTAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGCGACAG 1516  
QY 241 TGATCGTGGACAG 253  
Db 1517 TGATCGTGGACAG 1529

## RESULT 3

US-10-106-698-1971  
; Sequence 1971, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 1971  
; LENGTH: 2854  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-106-698-1971

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Best Local Similarity 100.0%; Pred. No. 7.6e-79;  
Matches 253; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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QY 241 TGATCGTGGACAG 253  
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## RESULT 4

US-10-106-698-351  
; Sequence 351, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564



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; TYPE: DNA  
; ORGANISM: Homo sapiens  
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RESULT 5  
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; Sequence 27, Application US/10055412B  
; Publication No. US20030059861A1  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedict U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 27  
; LENGTH: 3007  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-055-412B-27

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Best Local Similarity 100.0%; Pred. No. 7.8e-79;  
Matches 253; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
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DB 1503 CCATCCAGCTTCAGAGTAAGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAG 1562

QY 241 TGATCGTGGACAG 253  
DB 1563 TGATCGTGGACAG 1575

## RESULT 6

US-10-106-698-2111  
; Sequence 2111, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 2111  
; LENGTH: 3109  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-106-698-2111

Query Match 100.0%; Score 253; DB 15; Length 3109;  
Best Local Similarity 100.0%; Pred. No. 8e-79;  
Matches 253; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AACAAAGTGGTCCCATCATCCACACAGTCGCTTTGGGGCCCTCTCGAGCTCAAGAACTAG 60  
DB 1164 AACAAAGTGGTCCCATCATCCACACAGTCGCTTTGGGGCCCTCTCGAGCTCAAGAACTAG 1223  
  
QY 61 AGGAGCTGTCCAAAATGACAGGAGGTTTACAGACATATGCTTTCAGATCAAGTTTCAGAAACA 120  
DB 1224 AGGAGCTGTCCAAAATGACAGGAGGTTTACAGACATATGCTTTCAGATCAAGTTTCAGAAACA 1283  
  
QY 121 ATGGCTCATTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCT 180  
DB 1284 ATGGCTCATTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCT 1343  
  
QY 181 CCATCCAGCTTCAGAGTAAGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAG 240  
DB 1344 CCATCCAGCTTCAGAGTAAGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAG 1403  
  
QY 241 TGATCGTGGACAG 253  
DB 1404 TGATCGTGGACAG 1416

## RESULT 7

US-09-823-356-25  
; Sequence 25, Application US/09823356  
; Patent No. US20010025098A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Kaser, Matthew R.  
; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
; FILE REFERENCE: PF-0489-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823,356

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; CURRENT FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/039,307
; PRIOR FILING DATE: 1998 March 13
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PERL Program
; SEQ ID NO 25
; LENGTH: 3111
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775
US-09-823-356-25

Query Match      100.0%; Score 253; DB 9; Length 3111;
Best Local Similarity 100.0%; Pred. No. 8e-79;
Matches 253; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AACAAAGTGGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 60
DB 1310 AACAAAGTGGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 1369

QY 61 AGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGAACA 120
DB 1370 AGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGAACA 1429

QY 121 ATGGCTCATTCATGCTTTTGGGGCCCTTTTCATCAGGAATGGAGTGTCTCTCAGCGCT 180
DB 1430 ATGGCTCATTCATGCTTTTGGGGCCCTTTTCATCAGGAATGGAGTGTCTCTCAGCGCT 1489

QY 181 CCATCCAGCTTTGAGAGTAAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGCCACAG 240
DB 1490 CCATCCAGCTTTGAGAGTAAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGCCACAG 1549

QY 241 TGATCGTGGACAG 253
DB 1550 TGATCGTGGACAG 1562

RESULT 9
US-10-235-994-25
; Sequence 25, Application US/10235994
; Publication No. US20030101002A1
; GENERAL INFORMATION:
; APPLICANT: Bartha, Gabor
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS
; FILE REFERENCE: ICYTP012
; CURRENT APPLICATION NUMBER: US/10/235,994
; CURRENT FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: US/10/003,608
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,081
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 3111
; TYPE: DNA
; ORGANISM: Human
; US-10-235-994-25

Query Match      100.0%; Score 253; DB 15; Length 3111;
Best Local Similarity 100.0%; Pred. No. 8e-79;
Matches 253; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AACAAAGTGGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 60
DB 1310 AACAAAGTGGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 1369

QY 61 AGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGAACA 120
DB 1370 AGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGAACA 1429

QY 121 ATGGCTCATTCATGCTTTTGGGGCCCTTTTCATCAGGAATGGAGTGTCTCTCAGCGCT 180
DB 1430 ATGGCTCATTCATGCTTTTGGGGCCCTTTTCATCAGGAATGGAGTGTCTCTCAGCGCT 1489

QY 181 CCATCCAGCTTTGAGAGTAAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGCCACAG 240
DB 1490 CCATCCAGCTTTGAGAGTAAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGCCACAG 1549

QY 241 TGATCGTGGACAG 253
DB 1550 TGATCGTGGACAG 1562

RESULT 10
US-09-764-868-22
; Sequence 22, Application US/09764868
; Patent No. US20020168711A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT232
; CURRENT APPLICATION NUMBER: US/09/764,868
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1510
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; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 22
; LENGTH: 3267
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-868-22

Query Match      100.0%; Score 253; DB 9; Length 3267;
Best Local Similarity 100.0%; Pred. No. 8.2e-79;
Matches 253; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AACAAAGTGGTCCCATCATCCACACAGTGCCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 60
DB 1311 AACAAAGTGGTCCCATCATCCACACAGTGCCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 1370

QY 61 AGGAGCTGTCCAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTTCAAGAAC 120
DB 1371 AGGAGCTGTCCAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTTCAAGAAC 1430

QY 121 ATGGCTCATTCATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGTGTCTCTCAGCGCT 180
DB 1431 ATGGCTCATTCATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGTGTCTCTCAGCGCT 1490

QY 181 CCATCAGCTTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGGCACAG 240
DB 1491 CCATCAGCTTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGGCACAG 1550

QY 241 TCATCGTGGACAG 253
DB 1551 TCATCGTGGACAG 1563

RESULT 11
US-09-922-217-1056
; Sequence 1056, Application US/09922217
; Patent No. US20020076414A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiahongchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1056
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-922-217-1056

Query Match      100.0%; Score 253; DB 9; Length 3311;
Best Local Similarity 100.0%; Pred. No. 8.2e-79;
Matches 253; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AACAAAGTGGTCCCATCATCCACACAGTGCCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 60
DB 1628 AACAAAGTGGTCCCATCATCCACACAGTGCCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 1687

QY 61 AGGAGCTGTCCAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTTCAAGAAC 120
DB 1688 AGGAGCTGTCCAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTTCAAGAAC 1747

QY 121 ATGGCTCATTCATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGTGTCTCTCAGCGCT 180
DB 1748 ATGGCTCATTCATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGTGTCTCTCAGCGCT 1807

QY 181 CCATCAGCTTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGGCACAG 240
DB 1808 CCATCAGCTTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGGCACAG 1867

QY 241 TCATCGTGGACAG 253
DB 1868 TCATCGTGGACAG 1880

RESULT 12
US-09-833-263-1056
; Sequence 1056, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Stolk, John A.
; APPLICANT: Meagher, Madeleine J.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; FILE REFERENCE: 210121.471C12
; CURRENT APPLICATION NUMBER: US/09/833,263
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1056
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-833-263-1056

Query Match      100.0%; Score 253; DB 9; Length 3311;
Best Local Similarity 100.0%; Pred. No. 8.2e-79;
Matches 253; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AACAAAGTGGTCCCATCATCCACACAGTGCCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 60
DB 1628 AACAAAGTGGTCCCATCATCCACACAGTGCCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 1687

QY 61 AGGAGCTGTCCAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTTCAAGAAC 120
DB 1688 AGGAGCTGTCCAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTTCAAGAAC 1747

QY 121 ATGGCTCATTCATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGTGTCTCTCAGCGCT 180
DB 1748 ATGGCTCATTCATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGTGTCTCTCAGCGCT 1807

QY 181 CCATCAGCTTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGGCACAG 240
DB 1808 CCATCAGCTTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGGCACAG 1867

QY 241 TCATCGTGGACAG 253
DB 1868 TCATCGTGGACAG 1880

RESULT 13
US-10-025-380-1056
; Sequence 1056, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiahongchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
```

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; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick Thomas S.
; APPLICANT: Carter, Darrick
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C14
; CURRENT APPLICATION NUMBER: US/10/025,380
; CURRENT FILING DATE: 2001-12-19
; NUMBER OF SEQ ID NOS: 1129
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1056
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-025-380-1056

Query Match      100.0%; Score 253; DB 14; Length 3311;
Best Local Similarity 100.0%; Pred. No. 8.2e-79;
Matches 253; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AACAAAGTGGTGCCCATCCACACAGTCGCTTTGGGGCCCTCTCGAGCTCAAGAACTAG 60
DB 1628 AACAAAGTGGTGCCCATCCACACAGTCGCTTTGGGGCCCTCTCGAGCTCAAGAACTAG 1687

QY 61 AGGAGCTGTCCAAAATGACAGGAGTTTACAGACATATGCTTTCAGATCAAGTTCAAGAAC 120
DB 1688 AGGAGCTGTCCAAAATGACAGGAGTTTACAGACATATGCTTTCAGATCAAGTTCAAGAAC 1747

QY 121 ATGGCCTCATTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCT 180
DB 1748 ATGGCCTCATTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCT 1807

QY 181 CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCACAG 240
DB 1808 CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCACAG 1867

QY 241 TGATCGTGGACAG 253
DB 1868 TGATCGTGGACAG 1880

RESULT 15
US-10-393-590-12
; Sequence 12, Application US/10393590
; Publication No. US20030190656A1
; GENERAL INFORMATION:
; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO
; FILE REFERENCE: CDS 268 US NP
; CURRENT APPLICATION NUMBER: US/10/393,590
; CURRENT FILING DATE: 2003-03-21
; PRIOR FILING DATE: 2002-03-29
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 12
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: human
US-10-393-590-12

Query Match      100.0%; Score 253; DB 15; Length 3311;
Best Local Similarity 100.0%; Pred. No. 8.2e-79;
Matches 253; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AACAAAGTGGTGCCCATCCACACAGTCGCTTTGGGGCCCTCTCGAGCTCAAGAACTAG 60
DB 1628 AACAAAGTGGTGCCCATCCACACAGTCGCTTTGGGGCCCTCTCGAGCTCAAGAACTAG 1687

QY 61 AGGAGCTGTCCAAAATGACAGGAGTTTACAGACATATGCTTTCAGATCAAGTTCAAGAAC 120
DB 1688 AGGAGCTGTCCAAAATGACAGGAGTTTACAGACATATGCTTTCAGATCAAGTTCAAGAAC 1747

QY 121 ATGGCCTCATTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCT 180
DB 1748 ATGGCCTCATTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCT 1807

QY 181 CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCACAG 240
DB 1808 CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCACAG 1867

QY 241 TGATCGTGGACAG 253
DB 1868 TGATCGTGGACAG 1880

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Job time : 136.395 secs
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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 24, 2004, 00:33:00 ; Search time 23.2558 Seconds  
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Title: US-09-049-696-8  
Perfect score: 253  
Sequence: 1 AACAAAGTGTGCCATCATC.....GGCACAGTATCGTGGACAG 253

Scoring table: IDENTITY NUC  
Gapop 10\_0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents NA: \*  
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2: /cgn2\_6/ptodata/2/ina/5B COMB.seq: \*  
3: /cgn2\_6/ptodata/2/ina/6A COMB.seq: \*  
4: /cgn2\_6/ptodata/2/ina/6B COMB.seq: \*  
5: /cgn2\_6/ptodata/2/ina/PTUS COMB.seq: \*  
6: /cgn2\_6/ptodata/2/ina/backfiles1.seq: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	253	100.0	1512	4	US-09-016-434-850
2	253	100.0	2745	4	US-09-623-624-5
3	253	100.0	3007	4	US-09-193-562D-27
4	174.6	69.0	2931	4	US-09-623-624-1
5	136.2	53.8	3043	4	US-09-049-698-16
6	136.2	53.8	3181	4	US-09-049-698-18
7	93.4	36.9	590	4	US-09-643-597-132
8	93.4	36.9	590	4	US-09-480-884A-132
9	93.4	36.9	590	4	US-09-542-615A-132
10	93.4	36.9	590	4	US-09-606-421B-132
11	93.4	36.9	590	4	US-09-221-107-132
12	93.4	36.9	2773	4	US-09-643-597-358
13	93.4	36.9	2784	4	US-09-643-597-168
14	93.4	36.9	2784	4	US-09-480-884A-168
15	93.4	36.9	2784	4	US-09-542-615A-168
16	93.4	36.9	2784	4	US-09-606-421B-168
17	93.4	36.9	2970	4	US-09-193-562D-31
18	93.4	36.9	3156	4	US-09-919-172-86
19	93.4	36.9	3190	4	US-09-623-624-3
20	93.4	36.9	3362	4	US-09-643-597-167
21	93.4	36.9	3362	4	US-09-480-884A-167
22	93.4	36.9	3362	4	US-09-542-615A-167
23	93.4	36.9	3362	4	US-09-606-421B-167
24	93.4	36.9	3951	4	US-09-643-597-160
25	93.4	36.9	3951	4	US-09-480-884A-160
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27	93.4	36.9	3951	4	US-09-606-421B-160

28	93.4	36.9	3951	4	US-09-221-107-160	Sequence 160, App
29	93.4	36.9	8031	4	US-09-643-597-254	Sequence 254, App
30	93.4	36.9	8031	4	US-09-480-884A-254	Sequence 254, App
31	93.4	36.9	8031	4	US-09-542-615A-254	Sequence 254, App
32	93.4	36.9	8031	4	US-09-606-421B-254	Sequence 254, App
33	87	34.4	3317	4	US-09-193-562D-1	Sequence 1, Appli
34	78.8	31.1	3022	4	US-09-193-562D-33	Sequence 33, Appl
35	57.4	22.7	3418	4	US-09-193-562D-29	Sequence 29, Appl
36	39.2	15.5	216	4	US-09-049-698-5	Sequence 5, Appli
37	39.2	15.5	619	4	US-09-016-434-931	Sequence 931, App
38	31.8	12.6	2590	4	US-09-620-312D-67	Sequence 67, Appl
39	31.2	12.3	387	4	US-09-216-393B-61	Sequence 61, Appl
40	30.8	12.2	417	4	US-09-216-393B-63	Sequence 63, Appl
41	30.6	12.1	430	4	US-09-621-976-16656	Sequence 16656, A
42	30.4	12.0	399	4	US-09-621-976-8976	Sequence 8976, Ap
43	30.2	11.9	128779	4	US-09-497-855A-38	Sequence 38, Appl
44	30.2	11.9	1548	4	US-09-328-352-3186	Sequence 3186, Ap
45	29.6	11.7	431	4	US-09-833-381-790	Sequence 790, App

ALIGNMENTS

RESULT 1  
US-09-016-434-850  
; Sequence 850, Application US/09016434  
; Patent No. 6500938  
; GENERAL INFORMATION:  
; APPLICANT: Janice Au-Young  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION  
; NUMBER OF SEQUENCES: 1490  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/016,434  
; FILING DATE: HEREWITH  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Zeller, Karen J.  
; REGISTRATION NUMBER: 37,071  
; REFERENCE/DOCKET NUMBER: PA-0002 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (650) 855-0555  
; TELEFAX: (650) 845-4166  
; INFORMATION FOR SEQ ID NO: 850:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1512 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: COLNNOT01  
; CLONE: 608819  
; US-09-016-434-850

Query Match 100.0%; Score 253; DB 4; Length 1512;  
Best Local Similarity 100.0%; Pred. No. 8.3e-80;

	Matches	253,	Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0;
Qy	1	AACAAAGTGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG	60							
Db	1	AACAAAGTGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG	60							
Qy	61	AGGAGCTGCCAAAATCACACAGGAGTTTACAGACATATGCTTCAGATCAGTTCAGAACACA	120							
Db	61	AGGAGCTGTCCAAAATGACAGGAGTTTACAGACATATGCTTCAGATCAGTTCAGAACACA	120							
Qy	121	ATGCGCTCATTTGATGCTTTTTGGGGCCCTTTTCATCAGGAATGGAGCTGTCTCTCAGCGCT	180							
Db	121	ATGCGCTCATTTGATGCTTTTTGGGGCCCTTTTCATCAGGAATGGAGCTGTCTCTCAGCGCT	180							
Qy	181	CCATCCAGCTTGAGAGTAAGGGATTACCCTCCAGAACAGCCAGTGGATGATGGCCACAG	240							
Db	181	CCATCCAGCTTGAGAGTAAGGGATTACCCTCCAGAACAGCCAGTGGATGATGGCCACAG	240							
Qy	241	TGATCGTGGACAG	253							
Db	241	TGATCGTGGACAG	253							

RESULT 2  
US-09-623-624-5  
; Sequence 5, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Megalin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 2745  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(2742)

Qy	1	AACAAAGTGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAAGCTAG	60
Db	1277	AACAAAGTGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAAGCTAG	1336
Qy	61	AGGAGCTGTCCTCAAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAAC	120
Db	1337	AGGAGCTGTCCTCAAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAAC	1396
Qy	121	ATGCGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGAAATGGAGCTGTCTCTCAGCGCT	180
Db	1397	ATGCGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGAAATGGAGCTGTCTCTCAGCGCT	1456
Qy	181	CCATCCAGCTTGAGAGTAAGGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAG	240
Db	1457	CCATCCAGCTTGAGAGTAAGGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAG	1516
Qy	241	TGATCGTGGACAG	253
Db	1517	TGATCGTGGACAG	1529

RESULT 3  
 US-09-193-562D-27  
 ; Sequence 27, Application US/09193562D  
 ; Patent No. 6309857  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Pauli, Benedicht U.  
 ; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
 ; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
 ; FILE REFERENCE: 18617.0052  
 ; CURRENT APPLICATION NUMBER: US/09/193,562D  
 ; PRIOR FILING DATE: 1998-11-17  
 ; PRIOR APPLICATION NUMBER: US/60/065,922  
 ; PRIOR FILING DATE: 1997-11-17  
 ; NUMBER OF SEQ ID NOS: 47  
 ; SEQ ID NO 27  
 ; LENGTH: 3007  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-193-562D-27

Query Match		100.0%;	Score 253;	DB 4;	Length 3007;
Best Local Similarity		100.0%;	Pred. No. 1.2e-79;		
Matches	253;	Conservative	0;	Mismatches	0;
				Indels	0;
				Gaps	0;

Qy	1	AACAAAGTGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAAGCTAG	60
Db	1323	AACAAAGTGTGTGCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAAGCTAG	1382
Qy	61	AGGAGCTGTCCTCAAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAAC	120
Db	1383	AGGAGCTGTCCTCAAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAAC	1442
Qy	121	ATGCGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGAAATGGAGCTGTCTCTCAGCGCT	180
Db	1443	ATGCGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGAAATGGAGCTGTCTCTCAGCGCT	1502
Qy	181	CCATCCAGCTTGAGAGTAAGGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAG	240
Db	1503	CCATCCAGCTTGAGAGTAAGGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAG	1562
Qy	241	TGATCGTGGACAG	253
Db	1563	TGATCGTGGACAG	1575

RESULT 4  
 US-09-623-624-1  
 ; Sequence 1, Application US/09623624  
 ; Patent No. 6576434  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Magainin Pharmaceuticals, Inc.

;; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
;; TITLE OF INVENTION: Asthmatic Allergies, Including Asthma and Related

;; FILE REFERENCE: 36870-5073-WO

;; CURRENT FILING DATE: 2000-09-06

;; PRIOR APPLICATION NUMBER: US/09/623,624

;; PRIOR FILING DATE: 1999-03-03

;; PRIOR APPLICATION NUMBER: US/08/697,360

;; PRIOR FILING DATE: 1996-08-23

;; PRIOR APPLICATION NUMBER: US/08/697,419

;; PRIOR FILING DATE: 1996-08-23

;; PRIOR APPLICATION NUMBER: US/08/697,440

;; PRIOR FILING DATE: 1996-08-23

;; PRIOR APPLICATION NUMBER: US/08/697,471

;; PRIOR FILING DATE: 1996-08-23

;; PRIOR APPLICATION NUMBER: US/08/697,471

;; PRIOR FILING DATE: 1996-08-23

;; PRIOR APPLICATION NUMBER: US/08/697,472

;; PRIOR FILING DATE: 1996-08-23

;; PRIOR APPLICATION NUMBER: US/08/697,473

;; PRIOR FILING DATE: 1996-08-23

;; PRIOR APPLICATION NUMBER: US/08/702,105

;; PRIOR FILING DATE: 1996-08-23

;; PRIOR APPLICATION NUMBER: US/08/702,110

;; PRIOR FILING DATE: 1996-08-23

;; PRIOR APPLICATION NUMBER: US/08/702,168

;; PRIOR FILING DATE: 1996-08-23

;; PRIOR APPLICATION NUMBER: US/08/980,872

;; PRIOR FILING DATE: 1997-12-01

;; NUMBER OF SEQ ID NOS: 18

;; SOFTWARE: Patent In Ver. 2.0

;; SEQ ID NO 1

;; TYPE: DNA

;; ORGANISM: Mus musculus

;; FEATURE:

;; NAME/KEY: CDS

;; LOCATION: (8)..(2746)

US-09-623-624-1

Query Match 69.0%; Score 174.6; DB 4; Length 2931;  
Best Local Similarity 80.6%; Pred. No. 8.5e-52;  
Matches 204; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

QY 1 AACAAAGTGGTCCCATCATCCACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGACTAG 60

DB 1287 AGCAGAGCGGGGCCATCATCCATACAGTGGCCCTGGGACCGGCTGCGCTAAAGAGCTTG 1346

QY 61 AGGAGCTGTCCAAAATGACAGGAGGTTTACAGACATATGCTTTCAGATCAAGTTTCAGAAC 120

DB 1347 AGCAGCTGTCCAAAATGACAGGAGGCTTCGACATATCTTCGGATCAGTTTCAGAAC 1406

QY 121 ATGGGCTCATTCATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGTGTCTCTCAGCGCT 180

DB 1407 ATGGTCTTGTTCATGCTTTTCGAGCACTCTCTCAGGAAATGGGCGATCGCTCAGCACT 1466

QY 181 CCATCCAGCTTCAGATGAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCAGAC 240

DB 1467 CCATCCAGCTTCAGATGAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCAGAC 1526

QY 241 TGATCGTGGACAG 253

DB 1527 TGATCGTGGACAG 1539

RESULT 5

US-09-049-698-16

;; Sequence 16, Application US/09049698

;; Patent No. 6368792

;; GENERAL INFORMATION:

;; APPLICANT: BILLING-MEDEL, PATRICIA A.

;; APPLICANT: COHEN, MAURICE

;; APPLICANT: COLPITTS, TRACEY L.

;; APPLICANT: FRIEDMAN, PAULA N.

;; APPLICANT: HAYDEN, MARK

;; APPLICANT: KLASS, MICHAEL R.

;; APPLICANT: ROBERTS-RAPP, LISA

;; APPLICANT: RUSSELL, JOHN C.

;; APPLICANT: STROUPE, STEPHEN D.

;; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE

;; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL

;; TITLE OF INVENTION: TRACT

;; NUMBER OF SEQUENCES: 51

;; CORRESPONDENCE ADDRESS:

;; ADDRESSEE: Abbott Laboratories

;; STREET: 100 Abbott Park Road

;; CITY: Abbott Park

;; STATE: IL

;; COUNTRY: USA

;; ZIP: 60064-3500

;; COMPUTER READABLE FORM:

;; MEDIUM TYPE: Diskette

;; COMPUTER: IBM Compatible

;; OPERATING SYSTEM: DOS

;; SOFTWARE: Fast-Seq for Windows Version 2.0

;; CURRENT APPLICATION DATA:

;; APPLICATION NUMBER: US/09/049,698

;; FILING DATE:

;; CLASSIFICATION:

;; PRIOR APPLICATION DATA:

;; APPLICATION NUMBER: 08/828,856

;; FILING DATE: 31-MAR-1997

;; ATTORNEY/AGENT INFORMATION:

;; NAME: Becker, Cheryl L.

;; REGISTRATION NUMBER: 35,441

;; REFERENCE/DOCKET NUMBER: 6068.US.P1

;; TELECOMMUNICATION INFORMATION:

;; TELEPHONE: 847/935-1729

;; TELEFAX: 847/938-2623

;; TELEX:

;; INFORMATION FOR SEQ ID NO: 16:

;; SEQUENCE CHARACTERISTICS:

;; LENGTH: 3043 base pairs

;; TYPE: nucleic acid

;; STRANDEDNESS: single

;; TOPOLOGY: linear

US-09-049-698-16

Query Match 53.8%; Score 136.2; DB 4; Length 3043;  
Best Local Similarity 71.1%; Pred. No. 3.8e-38;  
Matches 180; Conservative 0; Mismatches 73; Indels 0; Gaps 0;

QY 1 AACAAAGTGGTCCCATCATCCACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGACTAG 60

DB 1293 AACAAAGTGGGGCCATGTTTCATTTTTCCTTTGGGAAGAGCTGCTGATGAAGCACTAA 1352

QY 61 AGGAGCTGTCCAAAATGACAGGAGGTTTACAGACATATGCTTTCAGATCAAGTTTCAGAAC 120

DB 1353 TAGAGATGAGCAAGATAACAGGAGGAGTCAATTTTATGTTTCAGATGAAGCTCAGAAC 1412

QY 121 ATGGGCTCATTCATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGTGTCTCTCAGCGCT 180

DB 1413 ATGGGCTCATTCATGCTTTTGGGGCTTTTACATCAGGAAATGATGATCTCTCCCAAGT 1472

QY 181 CCATCCAGCTTCAGATGAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCAGAC 240

DB 1473 CCCTTCAGCTCGAAAGTAGGGATTAACACTGAATAGTATGCTGGATGAAGCACTG 1532

QY 241 TGATCGTGGACAG 253

DB 1533 TCATTAATTGATAG 1545

RESULT 6

US-09-049-698-18

; Sequence 18, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITTS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLASS, MICHAEL R.  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; TITLE OF INVENTION: TRACT  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park  
; STATE: IL  
; COUNTRY: USA  
; ZIP: 60064-3500  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/049,698  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/828,856  
; FILING DATE: 31-MAR-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Becker, Cheryl L.  
; REGISTRATION NUMBER: 35,441  
; REFERENCE/DOCKET NUMBER: 6068.US.PI  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 847/935-1729  
; TELEFAX: 847/938-2623  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 18:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 3181 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; US-09-049-698-18

Query Match 53.8%; Score 136.2; DB 4; Length 3181;  
Best Local Similarity 71.1%; Pred. No. 3.9e-38;  
Matches 180; Conservative 0; Mismatches 73; Indels 0; Gaps 0;

QY 1 AACAAAGTGGCCATCATCACACAGTCGCTTTGGGGCCCTCTCAGCTCAAGACTAG 60  
DB 1304 AACAAAGTGGGCCATTGTTCAATTTATTTGCTTTGGGAAGAGCTGCTGATGAAGCAGTAA 1363

QY 61 AGGAGCTGTCCAAAATGACAGGAGGTTTACAGACATATGCTTTCAGATCAAGTTCAAGAAC 120  
DB 1364 TAGAGATGAGCAAGATAACAGGAGGAAGTCATTTTATGTTTCAGATGAAGCTCAGAAC 1423

QY 121 ATGGGCTCATGATGCTTTTGGGGCCCTTTATCAGGAAATGGAGCTGCTCTCAGCGCT 180  
DB 1424 ATGGGCTCATGATGCTTTTGGGGCTTTTACATCAGGAAATGATGATCTCTCCAGAAAGT 1483

QY 181 CCATCCAGCTTCAGAGTAAGGATTAACCTCCAGACAGCCAGTGGATGAATGCGACAG 240  
DB 1484 CCCTTCAGCTCAAGATGAGGATTAACACTGAATAGTAATGCTCGGTGATGACGACACTG 1543

QY 241 TGATCGTGACAG 253  
| | | | |

DB 1544 TCATAATTGATAG 1556

RESULT 7  
US-09-643-597-132  
; Sequence 132, Application US/09643597  
; Patent No. 6426072  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Fan, Liqun  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Hosken, Nancy  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Li, Samuel X.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Skeiky, Yasir A.W.  
; APPLICANT: Henderson, Robert A.  
; APPLICANT: McNeill, Patricia D.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER  
; FILE REFERENCE: 210121.455C11  
; CURRENT APPLICATION NUMBER: US/09/643,597  
; CURRENT FILING DATE: 2000-08-21  
; NUMBER OF SEQ ID NOS: 369  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 132  
; LENGTH: 590  
; TYPE: DNA  
; ORGANISM: Homo sapien  
; US-09-643-597-132

Query Match 36.9%; Score 93.4; DB 4; Length 590;  
Best Local Similarity 61.1%; Pred. No. 2.5e-23;  
Matches 151; Conservative 0; Mismatches 96; Indels 0; Gaps 0;

QY 6 AGTGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTCAGCTCAAGAACTAGAGGAG 65  
DB 91 AGTGTTCACAATTCATCTCAATTCCTGCTGGGTTTCATCTGCAGCCCCAAATCTGGAGAA 150

QY 66 CTGTCCAAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACAAATGCG 125  
DB 151 TTATCAGCTCTTACAGGAGGTTTAAAGTTCTTTGTCAGATATATCAAACTCCCAATAGC 210

QY 126 CTCATTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGAGCTGTCTCTCAGGCTCCATC 185  
DB 211 ATGATTGATGCTTTTTCAGTAGAATTTCTCTGGAACCTGGAGACATTTTCCAGCAACATATT 270

QY 186 CAGCTTGAGAGTAAGGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAGTGCATC 245  
DB 271 CAGTTGAAAGTACAGGTGAATGTCAAACTCACCATCAATTTGAAAAACACAGTGAAT 330

QY 246 GTGGACA 252  
DB 331 GTGGATA 337

RESULT 8  
US-09-480-884A-132  
; Sequence 132, Application US/09480884A  
; Patent No. 6482597  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Fan, Liqun  
; APPLICANT: Hosken, Nancy A.  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Fanger, Gary R.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY  
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER  
; FILE REFERENCE: 210121.455C6  
; CURRENT APPLICATION NUMBER: US/09/480,884A  
; CURRENT FILING DATE: 2001-08-27  
; NUMBER OF SEQ ID NOS: 330



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; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 132
; LENGTH: 590
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-480-884A-132

Query Match      36.9%; Score 93.4; DB 4; Length 590;
Best Local Similarity 61.1%; Pred. No. 2.5e-23;
Matches 151; Conservative 0; Mismatches 96; Indels 0; Gaps 0;

QY 6 AGTGTGTCATCATCCACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAG 65
DB 91 AGTGGTTCAACAATTCACCTCCATTCGCCCTGGGTTTCATCTGCAGCCCAAACTGGAGGAA 150
QY 66 CTGTCCAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTTCAGAAACAATGGC 125
DB 151 TTATCAGCTCTTACAGGAGTTTAAAGTCTTTGTTCCAGATATATCAAACTCCATAGC 210
QY 126 CTCATTGATGCTTTTGGGGCCCTTTTCATCAGAAATGGAGCTGTCTCTCAGCGCTCCATC 185
DB 211 ATGATTGATGCTTTTCAGTAGAATTTCTCTGGAACCTGGAGACATTTTCCAGCAACATATT 270
QY 186 CAGCTTGAGAGTAAGGATTAACTCCAGACAGCCAGTGGATGAATGGCAGAGTATC 245
DB 271 CAGCTTGAAGTACAGGTGAAATGTCAAACTCACCATCAATTGAAAAACACAGTGACT 330
QY 246 GTGGACA 252
DB 331 GTGGATA 337

RESULT 9
US-09-542-615A-132
; Sequence 132, Application US/09542615A
; Patent No. 6518256
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Lijun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy A.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
; FILE REFERENCE: 210121.455C8
; CURRENT APPLICATION NUMBER: US/09/542,615A
; NUMBER OF SEQ ID NOS: 350
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 132
; LENGTH: 590
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-542-615A-132

Query Match      36.9%; Score 93.4; DB 4; Length 590;
Best Local Similarity 61.1%; Pred. No. 2.5e-23;
Matches 151; Conservative 0; Mismatches 96; Indels 0; Gaps 0;

QY 6 AGTGTGTCATCATCCACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAG 65
DB 91 AGTGGTTCAACAATTCACCTCCATTCGCCCTGGGTTTCATCTGCAGCCCAAACTGGAGGAA 150
QY 66 CTGTCCAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTTCAGAAACAATGGC 125
DB 151 TTATCAGCTCTTACAGGAGTTTAAAGTCTTTGTTCCAGATATATCAAACTCCATAGC 210
QY 126 CTCATTGATGCTTTTGGGGCCCTTTTCATCAGAAATGGAGCTGTCTCTCAGCGCTCCATC 185
DB 211 ATGATTGATGCTTTTCAGTAGAATTTCTCTGGAACCTGGAGACATTTTCCAGCAACATATT 270
QY 186 CAGCTTGAGAGTAAGGATTAACTCCAGACAGCCAGTGGATGAATGGCAGAGTATC 245

US-09-049-696-8-132
; Sequence 132, Application US/09606421B
; Patent No. 6531315
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Lijun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Skeiky, Yasir A.W.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.455C9
; CURRENT APPLICATION NUMBER: US/09/606,421B
; CURRENT FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 358
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 132
; LENGTH: 590
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-606-421B-132

Query Match      36.9%; Score 93.4; DB 4; Length 590;
Best Local Similarity 61.1%; Pred. No. 2.5e-23;
Matches 151; Conservative 0; Mismatches 96; Indels 0; Gaps 0;

QY 6 AGTGTGTCATCATCCACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAG 65
DB 91 AGTGGTTCAACAATTCACCTCCATTCGCCCTGGGTTTCATCTGCAGCCCAAACTGGAGGAA 150
QY 66 CTGTCCAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTTCAGAAACAATGGC 125
DB 151 TTATCAGCTCTTACAGGAGTTTAAAGTCTTTGTTCCAGATATATCAAACTCCATAGC 210
QY 126 CTCATTGATGCTTTTGGGGCCCTTTTCATCAGAAATGGAGCTGTCTCTCAGCGCTCCATC 185
DB 211 ATGATTGATGCTTTTCAGTAGAATTTCTCTGGAACCTGGAGACATTTTCCAGCAACATATT 270
QY 186 CAGCTTGAGAGTAAGGATTAACTCCAGACAGCCAGTGGATGAATGGCAGAGTATC 245
DB 271 CAGCTTGAAGTACAGGTGAAATGTCAAACTCACCATCAATTGAAAAACACAGTGACT 330
QY 246 GTGGACA 252
DB 331 GTGGATA 337

RESULT 11
US-09-221-107-132
; Sequence 132, Application US/09221107
; Patent No. 6660838
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY OF LUNG CANCER
; FILE REFERENCE: 210121.455C2
; CURRENT APPLICATION NUMBER: US/09/221,107
; CURRENT FILING DATE: 1998-12-22
; NUMBER OF SEQ ID NOS: 161
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 132
```

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; LENGTH: 590
; TYPE: DNA
; ORGANISM: Human
US-09-221-107-132

Query Match      36.9%; Score 93.4; DB 4; Length 590;
Best Local Similarity 61.1%; Pred. No. 2.5e-23;
Matches 151; Conservative 0; Mismatches 96; Indels 0; Gaps 0;

QY 6 AGTGTGCATCATCCACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGAG 65
DB 91 AGTGTGTTCAACAATTCACCTCCATTCCCTGGGGTTCATCTGCAGCCCAAAATCTGGAGGA 150
QY 66 CTGTCCAAAATCAGAGGAGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACAAATGGC 125
DB 151 TTATCAGCTCTTACAGGAGGTTTAAAGTCTTTGTTCCAGATATATCAAACTCCAAATAGC 210
QY 126 CTCATTGATGCTTTTGGGGCCCTTTTCATCAGAAATGGAGCTGTCTCTCAGCGCTCCATC 185
DB 211 ATGATTGATGCTTTTCAGTAGAATTTCTCTGGAACCTGGAGACATTTTCCAGCAACATATT 270
QY 186 CAGCTTGAGTAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCAACATGATC 245
DB 271 CAGCTTGAAGTACAGGTGCAAAATGTCAAACTCCACCATCAATTGAAAAACACAGTGACT 330
QY 246 GTGGACA 252
DB 331 GTGGATA 337

RESULT 12
US-09-643-597-358
; Sequence 358, Application US/09643597
; Patent No. 6426072
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Henderson, Robert A.
; APPLICANT: McNeill, Patricia D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.455C11
; CURRENT APPLICATION NUMBER: US/09/643,597
; CURRENT FILING DATE: 2000-08-21
; NUMBER OF SEQ ID NOS: 369
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 358
; LENGTH: 2773
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-643-597-358

Query Match      36.9%; Score 93.4; DB 4; Length 2773;
Best Local Similarity 61.1%; Pred. No. 5.8e-23;
Matches 151; Conservative 0; Mismatches 96; Indels 0; Gaps 0;

QY 6 AGTGTGCATCATCCACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGAG 65
DB 1240 AGTGTGTTCAACAATTCACCTCCATTCCCTGGGGTTCATCTGCAGCCCAAAATCTGGAGGA 1299
QY 66 CTGTCCAAAATCAGAGGAGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACAAATGGC 125
DB 1300 TTATCAGCTCTTACAGGAGGTTTAAAGTCTTTGTTCCAGATATATCAAACTCCAAATAGC 1359
QY 126 CTCATTGATGCTTTTGGGGCCCTTTTCATCAGAAATGGAGCTGTCTCTCAGCGCTCCATC 185
DB 151 ATGATTGATGCTTTTCAGTAGAATTTCTCTGGAACCTGGAGACATTTTCCAGCAACATATT 1561
QY 186 CAGCTTGAGTAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCAACATGATC 245
DB 1562 CAGCTTGAAGTACAGGTGAAAAATGTCAAACTCCACCATCAATTGAAAAACACAGTGACT 1621
QY 246 GTGGACA 252
DB 1622 GTGGATA 1628

RESULT 14
US-09-480-884A-168
; Sequence 168, Application US/09480884A
; Patent No. 6482597
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Hosken, Nancy A.
US-09-480-884A-168

Query Match      36.9%; Score 93.4; DB 4; Length 2784;
Best Local Similarity 61.1%; Pred. No. 5.8e-23;
Matches 151; Conservative 0; Mismatches 96; Indels 0; Gaps 0;

QY 6 AGTGTGCATCATCCACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGAG 65
DB 1382 AGTGTGTTCAACAATTCACCTCCATTGCTGGTTCATCTGCAGCCCAAAATCTGGAGGA 1441
QY 66 CTGTCCAAAATCAGAGGAGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACAAATGGC 125
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QY 126 CTCATTGATGCTTTTGGGGCCCTTTTCATCAGAAATGGAGCTGTCTCTCAGCGCTCCATC 185
DB 1502 ATGATTGATGCTTTTCAGTAGAATTTCTCTGGAACCTGGAGACATTTTCCAGCAACATATT 1561
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DB 1562 CAGCTTGAAGTACAGGTGAAAAATGTCAAACTCCACCATCAATTGAAAAACACAGTGACT 1621
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RESULT 13
US-09-643-597-168
; Sequence 168, Application US/09643597
; Patent No. 6426072
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Henderson, Robert A.
; APPLICANT: McNeill, Patricia D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.455C11
; CURRENT APPLICATION NUMBER: US/09/643,597
; CURRENT FILING DATE: 2000-08-21
; NUMBER OF SEQ ID NOS: 369
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 168
; LENGTH: 2784
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-643-597-168

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Best Local Similarity 61.1%; Pred. No. 5.8e-23;
Matches 151; Conservative 0; Mismatches 96; Indels 0; Gaps 0;

QY 6 AGTGTGCATCATCCACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGAG 65
DB 1382 AGTGTGTTCAACAATTCACCTCCATTGCTGGTTCATCTGCAGCCCAAAATCTGGAGGA 1441
QY 66 CTGTCCAAAATCAGAGGAGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACAAATGGC 125
DB 1442 TTATCAGCTCTTACAGGAGGTTTAAAGTCTTTGTTCCAGATATATCAAACTCCAAATAGC 1501
QY 126 CTCATTGATGCTTTTGGGGCCCTTTTCATCAGAAATGGAGCTGTCTCTCAGCGCTCCATC 185
DB 1502 ATGATTGATGCTTTTCAGTAGAATTTCTCTGGAACCTGGAGACATTTTCCAGCAACATATT 1561
QY 186 CAGCTTGAGTAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCAACATGATC 245
DB 1562 CAGCTTGAAGTACAGGTGAAAAATGTCAAACTCCACCATCAATTGAAAAACACAGTGACT 1621
QY 246 GTGGACA 252
DB 1622 GTGGATA 1628

RESULT 14
US-09-480-884A-168
; Sequence 168, Application US/09480884A
; Patent No. 6482597
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Hosken, Nancy A.
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APPLICANT: Kalos, Michael D.  
APPLICANT: Fanger, Gary R.  
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY  
FILE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER  
FILE REFERENCE: 210121.455C6  
CURRENT APPLICATION NUMBER: US/09/480,884A  
CURRENT FILING DATE: 2001-08-27  
NUMBER OF SEQ ID NOS: 330  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 168  
LENGTH: 2784  
TYPE: DNA  
ORGANISM: Homo sapien  
US-09-480-884A-168

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Best Local Similarity 61.1%; Pred. No. 5.8e-23;

Matches 151; Conservative 0; Mismatches 96; Indels 0; Gaps 0;

QY 6 AGTGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAG 65  
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QY 66 CTGTCAAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACATGGC 125  
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Db 1502 ATGATGTAGCTTTTCAGTAGAATTTCTCTGAGCTGGAGACATTTTCAGCAACATATT 1561  
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Db 1562 CAGCTTGAAGTACAGGTGAAATGTCAAACTCCACCATCAATTGAAAAACACAGTGACT 1621  
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RESULT 15

US-09-542-615A-168

; Sequence 168, Application US/09542615A

; Patent No. 6518256

; GENERAL INFORMATION:

; APPLICANT: Wang, Tongtong

; APPLICANT: Fan, Liqun

; APPLICANT: Kalos, Michael D.

; APPLICANT: Bangur, Chaitanya S.

; APPLICANT: Hosken, Nancy A.

; APPLICANT: Fanger, Gary R.

; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY

; FILE REFERENCE: 210121.455C8

; CURRENT APPLICATION NUMBER: US/09/542,615A

; CURRENT FILING DATE: 2000-04-14

; NUMBER OF SEQ ID NOS: 350

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 168

; LENGTH: 2784

; TYPE: DNA

; ORGANISM: Homo sapien

US-09-542-615A-168

Query Match 36.9%; Score 93.4; DB 4; Length 2784;

Best Local Similarity 61.1%; Pred. No. 5.8e-23;

Matches 151; Conservative 0; Mismatches 96; Indels 0; Gaps 0;

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Db 1382 AGTGGTTCAACAATTCACATCCATTCGCTGGGTTTCATCTGCAGCCCAATCTGGAGGAA 1441  
QY 66 CTGTCAAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACATGGC 125

Db 1442 TTATCACGCTCTTACAGGAGGTTTAAAGTTCTTTGTTCCAGATATATCAAACTCCAATAGC 1501  
QY 126 CTCATTGATGCTTTTGGGGCCCTTTTCATCAGGAATGGAGTGTCTCTCAGCGCTCCATC 185  
Db 1502 ATGATGTAGCTTTTCAGTAGAATTTCTCTGAGCTGGAGACATTTTCAGCAACATATT 1561  
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Db 1622 GTGGATA 1628

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Maximum Match 100%  
Listing first 45 summaries

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and is derived by analysis of the total score distribution.

SUMMARIES

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2	410	84.5	869	14	US-10-106-698-6388	Sequence 6388, Ap
3	410	84.5	914	9	US-09-823-356-8	Sequence 8, Appli
4	410	84.5	914	9	US-09-922-217-1066	Sequence 1066, Ap
5	410	84.5	914	9	US-09-833-263-1066	Sequence 1066, Ap
6	410	84.5	914	9	US-09-981-353-192	Sequence 192, App
7	410	84.5	914	11	US-09-833-245-2054	Sequence 2054, Ap
8	410	84.5	914	13	US-10-025-380-1066	Sequence 1066, Ap
9	410	84.5	914	14	US-10-055-412B-28	Sequence 28, Appli
10	410	84.5	914	14	US-10-270-595-6	Sequence 6, Appli
11	410	84.5	914	14	US-10-235-994-26	Sequence 26, Appli
12	410	84.5	914	14	US-10-060-255-42	Sequence 42, Appli
13	410	84.5	914	15	US-10-369-214-133	Sequence 133, App
14	410	84.5	925	9	US-09-764-868-635	Sequence 635, App
15	410	84.5	925	14	US-10-106-698-6248	Sequence 6248, Ap
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17	357	73.6	913	15	US-10-369-214-132	Sequence 132, App
18	276	56.9	917	9	US-09-981-353-54	Sequence 54, Appli
19	276	56.9	917	13	US-10-025-167-41	Sequence 41, Appli
20	276	56.9	917	14	US-10-235-994-16	Sequence 16, Appli
21	276	56.9	917	14	US-10-345-680-32	Sequence 32, Appli
22	276	56.9	917	15	US-10-369-214-134	Sequence 134, App
23	276	56.9	917	15	US-10-087-080-34	Sequence 34, Appli
24	276	56.9	919	9	US-09-989-722-379	Sequence 379, App
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27	276	56.9	919	9	US-09-989-727-379	Sequence 379, App
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29	276	56.9	919	9	US-09-989-732-379	Sequence 379, App
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35	276	56.9	919	9	US-09-989-721-379	Sequence 379, App
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44	276	56.9	919	10	US-09-989-734-379	Sequence 379, App
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ALIGNMENTS

RESULT 1  
US-10-106-698-4628  
; Sequence 4628, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:

; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 4628  
; LENGTH: 552  
; TYPE: PRT

; ORGANISM: Homo sapiens  
US-10-106-698-4628



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QY 243 ATCGTGGAC 251
Db 507 lleValasp 509

RESULT 4
US-09-922-217-1066
; Sequence 1066, Application US/09922217
; Patent No. US20020076414A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; CURRENT FILING DATE: 2001-08-03
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1066
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-922-217-1066

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Score: 410.00 Matches: 83
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 84.54% Indels: 0
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QY 123 GGCCTCATTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCTCC 182
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QY 243 ATCGTGGAC 251
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RESULT 5
US-09-833-263-1066
; Sequence 1066, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Stolk, John A.
; APPLICANT: Meagher, Madeleine J.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C12
; CURRENT APPLICATION NUMBER: US/09/833,263
; CURRENT FILING DATE: 2001-04-10
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1066
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-833-263-1066

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Score: 410.00 Matches: 83
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 84.54% Indels: 0
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Db 507 lleValasp 509

RESULT 6
US-09-981-353-192
; Sequence 192, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
; APPLICANT: Lasek, Amy W.
; APPLICANT: Jones, David A.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US
; CURRENT APPLICATION NUMBER: US/09/981,353
; CURRENT FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO 192
; LENGTH: 914
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; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
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US-09-833-245-2054  
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; Publication No. US20040010134A1  
; GENERAL INFORMATION:  
; APPLICANT: Human Genome Sciences, Inc.  
; TITLE OF INVENTION: Albumin Fusion Proteins  
; FILE REFERENCE: PFS46PCT  
; CURRENT APPLICATION NUMBER: US/09/833,245  
; CURRENT FILING DATE: 2001-04-12  
; PRIOR APPLICATION NUMBER: 60/229,358  
; PRIOR FILING DATE: 2000-04-12  
; PRIOR APPLICATION NUMBER: 60/256,931  
; PRIOR FILING DATE: 2000-12-21  
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; SOFTWARE: PatentIn Ver. 2.1  
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US-09-833-245-2054

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Score: 410.00 Matches: 83  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 84.54% Indels: 0  
DB: 11 Gaps: 0

US-09-049-696-8 (1-253) x US-09-833-245-2054 (1-914)

QY 3 CAAAGTGTGTCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62  
Db 427 GlnSerGlyAlaIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 446  
QY 63 GAGCTGTCCAAATGACAGAGGAGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACAAAT 122  
Db 447 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn 466  
QY 123 GGCCTCATGTATGCTTTGGGGCCCTTCATCAGAAATGGAGCTGTCTCTCAGCGCTCC 182  
Db 467 GlyLeuLeuAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486  
QY 183 ATCCAGCTTGAGTAAGGATTACCTCCACAGACCCAGTCGATGAATGGCACAGTG 242  
Db 487 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 506  
QY 243 ATCGTGGAC 251

Db 507 IleValAsp 509

## RESULT 8

US-10-025-380-1066  
; Sequence 1066, Application US/10025380  
; Publication No. US20020182191A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Yudi  
; APPLICANT: Smith, Carole L.  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Skeiky, Yasir A. W.  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Vedvick Thomas S.  
; APPLICANT: Carter, Darrick  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; FILE REFERENCE: 210121.471C14  
; CURRENT APPLICATION NUMBER: US/10/025,380  
; CURRENT FILING DATE: 2001-12-19  
; NUMBER OF SEQ ID NOS: 1129  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1066  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-025-380-1066

## Alignment Scores:

Pred. No.: 1.03e-41 Length: 914  
Score: 410.00 Matches: 83  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 84.54% Indels: 0  
DB: 13 Gaps: 0

US-09-049-696-8 (1-253) x US-10-025-380-1066 (1-914)

QY 3 CAAAGTGTGTCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62  
Db 427 GlnSerGlyAlaIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 446  
QY 63 GAGCTGTCCAAATGACAGAGGAGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACAAAT 122  
Db 447 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn 466  
QY 123 GGCCTCATGTATGCTTTGGGGCCCTTCATCAGAAATGGAGCTGTCTCTCAGCGCTCC 182  
Db 467 GlyLeuLeuAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486  
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Db 487 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 506  
QY 243 ATCGTGGAC 251  
Db 507 IleValAsp 509

## RESULT 9

US-10-055-412B-28  
; Sequence 28, Application US/10055412B  
; Publication No. US20030059861A1  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.



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; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; Remaining Prior Application data removed - See File Wrapper or PALM
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 6
; LENGTH: 914
; TYPE: PR1
; ORGANISM: Homo sapiens
US-10-270-595-6

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Score:	410.00	Matches:		83
Percent Similarity:	100.00%	Conservative:		0
Best Local Similarity:	100.00%	Mismatches:		0
Query Match:	84.54%	Indels:		0
DB:	14	Gaps:		0
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3 CAAAGTGGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62

Db	427	GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu	446
Qy	63	GAGCTGTCCAAATGACACGAGGAGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAAAT	122
Db	447	GluLeuSerLysMetThrGlyGlyLeuGlnThrTyralaSerAspGlnValGlnAsnAsn	466
Qy	123	GAGCTCATGTATGCTTTTGGGGCCCTTTTCATCAGAGAAATGGAGCTGTCTCTCAGCGGTCC	182
Db	467	GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer	488
Qy	183	ATCCAGCTTGACAGTAAGGGATTAAACCTCCAGACACGCCAGTCGATGAATGGGCACAGTG	242
Db	487	IleGlnLeuGlySerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal	508
Qy	243	ATCGTGGAC	251
Db	507	IleValAsp	509

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US-10-235-994-26
; Sequence 26, Application US/10235994
; Publication No. US20030101002A1
; GENERAL INFORMATION:
; APPLICANT: Bartha, Gabor
; APPLICANT: Walker, Michael
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS
; FILE REFERENCE: ICYTP012
; CURRENT APPLICATION NUMBER: US/10/235,994
; CURRENT FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: US/10/003,608
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,081
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Human
US-10-235-994-26

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Pred. No.: 1,03e-41 Length: 914
Score: 410.00% Matches: 83
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 84.54% Indels: 0

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DB: 14 Gaps: 0
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QY 3 CAAAGTGTGCCATCATCCACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62
Db 427 GlnSerGlyAlaIleHISThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 446
QY 63 GAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAAAT 122
Db 447 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsn 466
QY 123 GGCCTCATGTAGCTTTTGGGGCCCTTTTCATCAGAAATGGAGCTGTCTCTCAGCGCTCC 182
Db 467 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486
QY 183 ATCCAGCTTGAGATGAGGATTAACCTCCAGAACAGCCAGTGGATGGACAGTGG 242
Db 487 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 506
QY 243 ATCGTGGAC 251
Db 507 IleValAsp 509
RESULT 12
US-10-060-255-42
; Sequence 42, Application US/10060255
; Publication No. US20030113840A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 25 Human secreted proteins
; FILE REFERENCE: P2042P1
; CURRENT APPLICATION NUMBER: US/10/060,255
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: 09/781,417
; PRIOR FILING DATE: 2001-02-13
; PRIOR APPLICATION NUMBER: PCT/US00/22325
; PRIOR FILING DATE: 2000-08-16
; PRIOR APPLICATION NUMBER: 60/149,182
; PRIOR FILING DATE: 1999-08-17
; NUMBER OF SEQ ID NOS: 86
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 42
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-060-255-42
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Pred. No.: 1,03e-41 Length: 914
Score: 410.00 Matches: 83
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 84.54% Indels: 0
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Db 427 GlnSerGlyAlaIleHISThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 446
QY 63 GAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAAAT 122
Db 447 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsn 466
QY 123 GGCCTCATGTAGCTTTTGGGGCCCTTTTCATCAGAAATGGAGCTGTCTCTCAGCGCTCC 182
Db 467 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486
QY 183 ATCCAGCTTGAGATGAGGATTAACCTCCAGAACAGCCAGTGGATGGACAGTGG 242
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QY 243 ATCGTGGAC 251
Db 507 IleValAsp 509
RESULT 13
US-10-369-214-133
; Sequence 133, Application US/10369214
; Publication No. US20030232037A1
; GENERAL INFORMATION:
; APPLICANT: Groot, Pieter C.
; APPLICANT: Bergenhegouwen van, Bram J.
; APPLICANT: Oosterhout van, Antoon J.M.
; TITLE OF INVENTION: Genes involved in immune related responses observed
; FILE REFERENCE: P53837US00
; CURRENT APPLICATION NUMBER: US/10/369,214
; PRIOR FILING DATE: 2003-02-15
; PRIOR APPLICATION NUMBER: EP 00202867.8
; PRIOR FILING DATE: 2000-08-16
; PRIOR APPLICATION NUMBER: PCT/NL01/00610
; PRIOR FILING DATE: 2001-08-16
; NUMBER OF SEQ ID NOS: 139
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 133
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1)..(914)
; OTHER INFORMATION: /note="Human CLCA1"
US-10-369-214-133
Alignment Scores:
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Score: 410.00 Matches: 83
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 84.54% Indels: 0
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US-09-049-696-8 (1-253) x US-10-369-214-133 (1-914)
QY 3 CAAAGTGTGCCATCATCCACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62
Db 427 GlnSerGlyAlaIleHISThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 446
QY 63 GAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAAAT 122
Db 447 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsn 466
QY 123 GGCCTCATGTAGCTTTTGGGGCCCTTTTCATCAGAAATGGAGCTGTCTCTCAGCGCTCC 182
Db 467 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486
QY 183 ATCCAGCTTGAGATGAGGATTAACCTCCAGAACAGCCAGTGGATGGACAGTGG 242
Db 487 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 506
QY 243 ATCGTGGAC 251
Db 507 IleValAsp 509
RESULT 14
US-09-764-868-635
; Sequence 635, Application US/09764868
; Patent No. US20020168711A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT232
; CURRENT APPLICATION NUMBER: US/09/764,868
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;; CURRENT FILING DATE: 2001-01-17  
;; Prior application data removed - refer to PALM or file wrapper  
;; NUMBER OF SEQ ID NOS: 1510  
;; SOFTWARE: PatentIn Ver. 2.0  
;; SEQ ID NO 635  
;; LENGTH: 925  
;; TYPE: PRT  
;; ORGANISM: Homo sapiens  
US-09-764-868-635

Alignment Scores:  
Pred. No.: 1,03e-41 Length: 925  
Score: 410.00 Matches: 83  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 84.54% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-8 (1-253) x US-09-764-868-635 (1-925)

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Db 438 GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 457  
63 GAGCTGTCCAAAATGACACAGGAGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACAAAT 122  
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Db 458 GluLeuSerLysMetThrGlyLeuGlnThrTyAlaSerAspGlnValGlnAsnAsn 477  
123 GGCCTCATTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCTCC 182  
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Db 478 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 497  
183 ATCCAGCTTGAGAGTAAGGGATTAAACCTCCAGAACAGCCAGTGGATGAATGCCACAGTG 242  
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Db 498 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 517  
243 ATCGTGGAC 251  
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Db 518 IleValAsp 520

RESULT 15

US-10-106-698-6248  
; Sequence 5248, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide  
; FILE REFERENCE: PA005PI  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 6248  
; LENGTH: 925  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-106-698-6248

Alignment Scores:  
Pred. No.: 1.03e-41 Length: 925  
Score: 410.00 Matches: 83  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 84.54% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-8 (1-253) x US-10-106-698-6248 (1-925)

QY 3 CAAAGTGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62  
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63 GAGCTGTCCAAAATGACACAGGAGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACAAAT 122  
|||||  
Db 458 GluLeuSerLysMetThrGlyLeuGlnThrTyAlaSerAspGlnValGlnAsnAsn 477  
123 GGCCTCATTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCTCC 182  
|||||  
Db 478 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 497  
183 ATCCAGCTTGAGAGTAAGGGATTAAACCTCCAGAACAGCCAGTGGATGAATGCCACAGTG 242  
|||||  
Db 498 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 517  
243 ATCGTGGAC 251  
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Db 518 IleValAsp 520

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GenCore version 5.1.6  
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Ygapop 10.0, Ygapext 0.5  
Fgapop 6.0, Fgapext 7.0  
Delop 6.0, Delext 7.0

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 778828

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Post-processing: Minimum Match 0%

Maximum Match 100%

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SUMMARIES

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7	234	48.2	902	4	US-09-193-562D-34
8	219	45.2	1000	4	US-09-193-562D-30
9	210	43.3	795	4	US-09-193-562D-11
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13	194	40.0	592	4	US-09-480-884A-169	Sequence 169, App
14	194	40.0	592	4	US-09-542-615A-169	Sequence 169, App
15	194	40.0	592	4	US-09-606-421B-169	Sequence 169, App
16	194	40.0	791	4	US-09-643-597-170	Sequence 170, App
17	194	40.0	791	4	US-09-480-884A-170	Sequence 170, App
18	194	40.0	791	4	US-09-542-615A-170	Sequence 170, App
19	194	40.0	791	4	US-09-606-421B-170	Sequence 170, App
20	194	40.0	920	4	US-09-643-597-357	Sequence 357, App
21	194	40.0	942	4	US-09-919-172-87	Sequence 87, Appl
22	194	40.0	943	4	US-09-193-562D-32	Sequence 32, Appl
23	194	40.0	943	4	US-09-643-597-161	Sequence 161, App
24	194	40.0	943	4	US-09-480-884A-161	Sequence 161, App
25	194	40.0	943	4	US-09-542-615A-161	Sequence 161, App
26	194	40.0	943	4	US-09-606-421B-161	Sequence 161, App
27	194	40.0	943	4	US-09-623-624-4	Sequence 4, Appl
28	194	40.0	943	4	US-09-221-107-161	Sequence 161, App
29	71	15.2	133	4	US-09-489-039A-12871	Sequence 12871, A
30	69.5	14.3	209	4	US-09-685-168A-897	Sequence 897, App
31	69.5	14.3	492	3	US-09-342-749-2	Sequence 2, Appl
32	69.5	14.3	492	4	US-09-691-840-2	Sequence 2, Appl
33	69.5	14.3	492	4	US-09-685-166A-895	Sequence 895, App
34	68	14.0	1036	4	US-09-543-681A-7736	Sequence 7736, Ap
35	68	14.0	1507	6	5268270-2	Patent No. 5268270
36	66.5	13.7	546	4	US-09-345-236B-98	Sequence 98, Appl
37	66.5	13.7	546	4	US-09-345-236B-121	Sequence 121, App
38	66	13.6	400	2	US-08-713-298B-2	Sequence 2, Appl
39	66	13.6	400	2	US-08-870-180B-2	Sequence 2, Appl
40	66	13.6	400	3	US-08-814-052-4	Sequence 4, Appl
41	66	13.6	400	3	US-08-812-829-4	Sequence 4, Appl
42	66	13.6	400	3	US-09-226-529-2	Sequence 2, Appl
43	66	13.6	462	3	US-08-870-180B-13	Sequence 13, Appl
44	66	13.6	462	3	US-09-226-529-13	Sequence 13, Appl
45	64.5	13.3	1229	3	US-09-310-293-2	Sequence 2, Appl

ALIGNMENTS

RESULT 1  
US-09-193-562D-28  
; Sequence 28, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedict U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 28  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-193-562D-28

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Pred. No.:	410.00	Matches:	83
Score:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	84.54%	Indels:	0
DB:	4	Gaps:	0
US-09-049-696-8 (1-253) x US-09-193-562D-28 (1-914)			
QY	3	CAAGTGGTGCATCATCCACAGTCGCTTTGGGCGCCTCTGCAGCTCAAGAACTAGAG	62
Db	427	GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu	446
QY	63	GAGCTGTCCAAATGACAGGAGTTTACAGATATGTTTCAGATCAAGTTCAGAACT	122

Db 447 GluLeuSerLysMetThrGlyLeuGlnThrTyraLaserAspGlnValGlnAsnAsn 466  
QY 123 GGCCTCATTGATGCTTTGGGGCCCTTCATCAGGAATGGAGCTGCTCTCAGAGCTCC 182  
Db 467 GlyLeuIleAspAlaPheGlyAlaLeuSerGlyAenGlyAlaValSerGlnArgSer 486  
QY 183 ATCCAGCTTGAGATGAGGATTAAACCTCCAGAAACAGCCAGTGGATGAATGGCACAGTG 242  
Db 487 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 506  
QY 243 ATCGTGGAC 251  
Db 507 IleValAsp 509

## RESULT 2

US-09-623-624-6  
; Sequence 6, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-623-624-6

Alignment Scores:  
Pred. No.: 914 Length: 914  
Score: 410.00 Matches: 83  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 84.54% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-8 (1-253) x US-09-623-624-6 (1-914)

QY 3 CAAGTGTGCTCATCATCCACAGCTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62  
Db 427 GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 446  
QY 63 GAGCTGTCCAAATGACAGGAGGTTTACAGACATATGCTTTCAGATCAAGATTTCAGAACAA 122

Db 447 GluLeuSerLysMetThrGlyLeuGlnThrTyraLaserAspGlnValGlnAsnAsn 466  
QY 123 GGCCTCATTGATGCTTTGGGGCCCTTCATCAGGAATGGAGCTGCTCTCAGAGCTCC 182  
Db 467 GlyLeuIleAspAlaPheGlyAlaLeuSerGlyAenGlyAlaValSerGlnArgSer 486  
QY 183 ATCCAGCTTGAGATGAGGATTAAACCTCCAGAAACAGCCAGTGGATGAATGGCACAGTG 242  
Db 487 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 506  
QY 243 ATCGTGGAC 251  
Db 507 IleValAsp 509

## RESULT 3

US-09-623-624-2  
; Sequence 2, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2  
; LENGTH: 913  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-09-623-624-2

Alignment Scores:  
Pred. No.: 714 Length: 913  
Score: 357.00 Matches: 68  
Percent Similarity: 95.18% Conservative: 11  
Best Local Similarity: 81.93% Mismatches: 4  
Query Match: 73.61% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-8 (1-253) x US-09-623-624-2 (1-913)

QY 3 CAAGTGTGCTCATCATCCACAGCTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62  
Db 428 GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProAlaAlaLysGluLeuGlu 447

QY 63 GAGCTGTCCTCAAAATGACAGGAGGTTTACAGACATATGCTTTCAGATCAAGATTGAGAACAT 122  
Db 448 GlnLeuSerLysMetThrGlyGlyLeuGlnThrTyrSerSerAspGlnValGlnAsnAsn 467  
QY 123 GGCCTCATTTGCTTTGGGCGCCCTTTCATCAGGAATGGAGCTGCTCTCAGCGCTCC 182  
Db 468 GlyLeuValAspAlaPheAlaLeuSerSerGlyAsnAlaAlaGlnHisSer 487  
QY 183 ATCCAGCTTGAGTAAGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAGTG 242  
Db 488 IleGlnLeuGluSerArgGlyValAsnLeuGlnAsnGlnTyrMetAsnGlySerVal 507  
QY 243 ATCGTGGAC 251  
Db 508 IleValAsp 510  
RESULT 4  
US-09-049-698-41  
; Sequence 41, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITTS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLASS, MICHAEL R.  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: REAGENTS FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; TITLE OF INVENTION: TRACT  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park  
; STATE: IL  
; COUNTRY: USA  
; ZIP: 60064-3500  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: Fast-Seq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/049,698  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/828,856  
; FILING DATE: 31-MAR-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Becker, Cheryl L.  
; REGISTRATION NUMBER: 35,441  
; REFERENCE/DOCKET NUMBER: 6068.US.P1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 847/935-1729  
; TELEFAX: 847/938-2623  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 41:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 917 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: No. 6368792e  
US-09-049-698-41  
Alignment Scores:  
Pred. No.: 2.64e-27 Length: 917  
Score: 276.00 Matches: 53

Percent Similarity: 81.93% Conservative: 15  
Best Local Similarity: 63.86% Mismatches: 15  
Query Match: 56.91% Indels: 0  
DB: 4 Gaps: 0  
US-09-049-696-8 (1-253) x US-09-049-698-41 (1-917)  
QY 3 CAAAGTGTGTCATCATCCACAGTCGCTTTGGGCGCCCTTTCAGCTCAAGAACTAGAG 62  
Db 428 GlnSerGlyAlaIleValHisPheIleAlaLeuGlyArgAlaAspGluAlaValIle 447  
QY 63 GAGCTGTCCTCAAAATGACAGGAGGTTTACAGACATATGCTTTCAGATCAAGATTGAGAACAT 122  
Db 448 GlnLeuSerLysMetThrGlyGlyLeuGlnThrTyrSerSerAspGlnValGlnAsnAsn 467  
QY 123 GGCCTCATTTGCTTTGGGCGCCCTTTCATCAGGAATGGAGCTGCTCTCAGCGCTCC 182  
Db 468 GlyLeuValAspAlaPheAlaLeuSerSerGlyAsnAlaAlaGlnHisSer 487  
QY 183 ATCCAGCTTGAGTAAGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAGTG 242  
Db 488 LeuGlnLeuGluSerLysGlyLeuThrLeuAsnSerAsnAlaTyrMetAsnAspThrVal 507  
QY 243 ATCGTGGAC 251  
Db 508 IleValAsp 510  
RESULT 5  
US-09-193-562D-46  
; Sequence 46, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 46  
; LENGTH: 903  
; TYPE: PRT  
; ORGANISM: Unknown  
; FEATURE:  
; OTHER INFORMATION: Calcium sensitive chloride channel from bovine tracheal  
; OTHER INFORMATION: epithelium (Cunningham et al., 1995, J. Biol. Chem., 270:31016-  
; OTHER INFORMATION: 31026)  
US-09-193-562D-46  
Alignment Scores:  
Pred. No.: 1.27e-22 Length: 903  
Score: 240.00 Matches: 49  
Percent Similarity: 77.11% Conservative: 15  
Best Local Similarity: 59.04% Mismatches: 17  
Query Match: 49.48% Indels: 2  
DB: 4 Gaps: 1  
US-09-049-696-8 (1-253) x US-09-193-562D-46 (1-903)  
QY 3 CAAAGTGTGTCATCATCCACAGTCGCTTTGGGCGCCCTTTCAGCTCAAGAACTAGAG 62  
Db 430 GlnSerGlyValIleIleHisThrValAlaLeuGlyProSerAlaAlaGlyGluLeuGlu 449  
QY 63 GAGCTGTCCTCAAAATGACAGGAGGTTTACAGACATATGCTTTCAGATCAAGATTGAGAACAT 122  
Db 450 ThrLeuSerAspMetThrGlyHisArgPheTyrAlaAsnLysAspIle-----Asn 467  
QY 123 GGCCTCATTTGCTTTGGGCGCCCTTTCATCAGGAATGGAGCTGCTCTCAGCGCTCC 182  
Db 468 GlyLeuThrAsnAlaPheSerArgSerArgSerGlySerIleThrGlnGlnThr 487

QY 183 ATCCAGCTTGAGAGTAAGGATTAAACCTCCAGAACAGCCAGTGGATGATGACAGTG 242  
|||||  
Db 488 IleGlnLeuGluSerLysAlaLeuAlaIleThrGluLysLysTrpValAsnGlyThrVal 507  
QY 243 ATCGTGGAC 251  
|||||  
Db 508 ProValAsp 510

## RESULT 6

US-09-623-624-18  
; Sequence 18, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 18  
; LENGTH: 903  
; TYPE: PRT  
; ORGANISM: Bos taurus  
US-09-623-624-18

Alignment Scores:  
Pred. No.: 1,71e-22 Length: 903  
Score: 239.00 Matches: 48  
Percent Similarity: 77.11% Conservative: 16  
Best Local Similarity: 57.83% Mismatches: 17  
Query Match: 49.28% Indels: 2  
DB: 4 Gaps: 1

US-09-049-696-8 (1-253) x US-09-623-624-18 (1-903)

QY 3 CAAGTGTGTCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62  
|||||  
Db 430 GlnSerGlyValIleHisThrIleAlaLeuGlyProSerAlaAlaLysGlnLeuGlu 449  
QY 63 GAGCTGTCCAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACAAAT 122  
|||||  
Db 450 ThrLeuSerAspMetThrGlyHisArgPheTyrAlaAsnLysAspIle-----Asn 467  
QY 123 GGCCTCATTTGATGCTTTTGGGGCCCTCTGCAGGAAATGGAGTGTCTCTCAGCGCTCC 182  
|||||  
Db 468 GlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIleThrGlnGlnThr 487

QY 183 ATCCAGCTTGAGAGTAAGGATTAAACCTCCAGAACAGCCAGTGGATGATGACAGTG 242  
|||||  
Db 488 IleGlnLeuGluSerLysAlaLeuAlaIleThrGluLysLysTrpValAsnGlyThrVal 507  
QY 243 ATCGTGGAC 251  
|||||  
Db 508 ProValAsp 510

## RESULT 7

US-09-193-562D-34  
; Sequence 34, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedict U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 34  
; LENGTH: 902  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-09-193-562D-34

Alignment Scores:  
Pred. No.: 7,63e-22 Length: 902  
Score: 234.00 Matches: 48  
Percent Similarity: 77.11% Conservative: 16  
Best Local Similarity: 57.83% Mismatches: 17  
Query Match: 48.25% Indels: 2  
DB: 4 Gaps: 1

US-09-049-696-8 (1-253) x US-09-193-562D-34 (1-902)

QY 3 CAAGTGTGTCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62  
:::|||||  
Db 430 ArgSerGlyAlaIleHisThrIleAlaLeuGlyProSerArgAlaArgGlnLeuGlu 449  
QY 63 GAGCTGTCCAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACAAAT 122  
|||||  
Db 450 ThrLeuSerAspMetThrGlyLysArgPheTyrAlaAsnLysAspLeu-----Asn 467  
QY 123 GGCCTCATTTGATGCTTTTGGGGCCCTCTGCAGGAAATGGAGTGTCTCTCAGCGCTCC 182  
:::|||||  
Db 468 SerLeuIleAspAlaPheSerArgIleSerSerThrSerGlySerValSerGlnGlnAla 487  
QY 183 ATCCAGCTTGAGAGTAAGGATTAAACCTCCAGAACAGCCAGTGGATGATGACAGTG 242  
:::|||||  
Db 488 LeuGlnLeuGluSerLysAlaPheAspValArgAlaGlyAlaIleThrIleAsnGlyThrVal 507  
QY 243 ATCGTGGAC 251  
:::|||||  
Db 508 ProLeuAsp 510

## RESULT 8

US-09-193-562D-30  
; Sequence 30, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedict U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47





```
; Sequence 2, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 2
; LENGTH: 905
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells
US-09-193-562D-2

Alignment Scores:
Pred. No.: 1,01e-18 Length: 905
Score: 210.00 Matches: 44
Percent Similarity: 74.70% Conservative: 18
Best Local Similarity: 53.01% Mismatches: 19
Query Match: 43.30% Indels: 2
DB: 4 Gaps: 1

US-09-049-696-8 (1-253) x US-09-193-562D-2 (1-905)
QY 3 CAAGCTGTGCATCATCCACACAGTGCCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62
   |||||
Db 431 ArgSerGlyAlaIleHisThrIleAlaLeuGlyProSerAlaAlaGluLeuGlu 450
   |||||

QY 63 GAGCTGTCAAATACAGAGGATTAAACCTCCAGACATATGCTTCAGATCAAGTTCAGAACAAT 122
   |||||
Db 451 ThrLysSerAsnMetThrGlyGlyTyrArgPhePheAlaAsnLysAspIle-----Thr 468
   |||||

QY 123 GGCCTCATGTGCTTTGGGGCCCTTTCACAGAAATGGAGCTGTCTCTCAGCGCTCC 182
   |||||
Db 469 GlyLeuThrAsnAlaPheSerArgIleSerArgSerGlySerIleThrGlnGlnAla 488
   |||||

QY 183 ATCCAGCTTGAGTAAGGATTAAACCTCCAGACAGCAGCTGATGATGAATGGCACAGTG 242
   |||||
Db 489 IleGlnLeuGluSerLysAlaLeuLysIleThrGlyArgLysArgValAsnGlyThrVal 508
   |||||

QY 243 ATCGTGGAC 251
   |||||
Db 509 ProValAsp 511

RESULT 12
US-09-643-597-169
; Sequence 169, Application US/09643597
; Patent No. 6426072
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Henderson, Robert A.
; APPLICANT: McNeill, Patricia D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.455C11
; CURRENT APPLICATION NUMBER: US/09/643,597
; CURRENT FILING DATE: 2000-08-21
; NUMBER OF SEQ ID NOS: 369
; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 169
; LENGTH: 592
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-643-597-169

Alignment Scores:
Pred. No.: 1.1e-16 Length: 592
Score: 194.00 Matches: 40
Percent Similarity: 67.07% Conservative: 15
Best Local Similarity: 48.78% Mismatches: 27
Query Match: 40.00% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-8 (1-253) x US-09-643-597-169 (1-592)
QY 6 AGTGTGCCATCATCCACACAGTGCCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGAG 65
   |||||
Db 436 SerGlySerThrIleHisSerIleAlaLeuGlySerSerAlaAlaProAsnLeuGlu 455
   |||||

QY 66 CTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAATGCG 125
   |||||
Db 456 LeuSerArgLeuThrGlyGlyLeuLysPheValProAspIleSerAsnSerAsnSer 475
   |||||

QY 126 CTATTGATGCTTTGGGGCCCTTTCATCAGAAATGGAGCTGTCTCTCAGCGCTCCATC 185
   |||||
Db 476 MetIleAspAlaPheSerArgIleSerSerGlyThrGlyAspIlePheGlnGlnHisIle 495
   |||||

QY 186 CAGCTTGAGTAAGGATTAAACCTCCAGACAGCAGCTGATGATGAATGGCACAGTGCATC 245
   |||||
Db 496 GlnLeuGluSerThrGlyLysValAsnValLysProHisHisGlnLeuLysAsnThrValThr 515
   |||||

QY 246 GTGGAC 251
   |||||
Db 516 ValAsp 517

RESULT 13
US-09-480-884A-169
; Sequence 169, Application US/09480884A
; Patent No. 6482597
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Hosken, Nancy A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
; FILE REFERENCE: 210121.455C6
; CURRENT APPLICATION NUMBER: US/09/480,884A
; CURRENT FILING DATE: 2001-08-27
; NUMBER OF SEQ ID NOS: 330
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 169
; LENGTH: 592
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-480-884A-169

Alignment Scores:
Pred. No.: 1.1e-16 Length: 592
Score: 194.00 Matches: 40
Percent Similarity: 67.07% Conservative: 15
Best Local Similarity: 48.78% Mismatches: 27
Query Match: 40.00% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-8 (1-253) x US-09-480-884A-169 (1-592)
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Db 436 SerGlySerThrIleHisSerIleAlaLeuGlySerSerAlaAlaProAsnLeuGlu 455
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QY 66 CTGTCCTCAAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTCAGAACATGGC 125
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Db 456 LeuSerArgLeuThrGlyGlyLeuLysPheValProAspIleSerAsnSer 475
QY 126 CTCATTGATGCTTTGGGGCCCTTTCATCAGGAATGGAGCTGCTCTCAGCGCTCCATC 185
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Db 476 MetIleAspAlaPheSerArgIleSerGlyThrGlyAspIlePheGlnHisIle 495
QY 186 CAGCTTGAGAGTAAGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAGTGATC 245
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Db 496 GlnLeuGluSerThrGlyGluAsnValLysProHisGlnLeuLysAsnThrValThr 515
QY 246 GTGGAC 251
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Db 516 ValAsp 517

RESULT 14
US-09-542-615A-169
; Sequence 169, Application US/09542615A
; Patent No. 6518256
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Ligu
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy R.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
; FILE REFERENCE: 210121.455C8
; CURRENT APPLICATION NUMBER: US/09/542,615A
; NUMBER OF SEQ ID NOS: 350
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 169
; LENGTH: 592
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-542-615A-169

Alignment Scores:
Pred. No.: 11e-16 Length: 592
Score: 194.00 Matches: 40
Percent Similarity: 67.07% Conservative: 15
Best Local Similarity: 48.78% Mismatches: 27
Query Match: 40.00% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-8 (1-253) x US-09-542-615A-169 (1-592)
QY 6 AGTGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAG 65
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QY 66 CTGTCCTCAAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTCAGAACATGGC 125
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Db 456 LeuSerArgLeuThrGlyGlyLeuLysPheValProAspIleSerAsnSer 475
QY 126 CTCATTGATGCTTTGGGGCCCTTTCATCAGGAATGGAGCTGCTCTCAGCGCTCCATC 185
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QY 186 CAGCTTGAGAGTAAGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAGTGATC 245
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Db 496 GlnLeuGluSerThrGlyGluAsnValLysProHisGlnLeuLysAsnThrValThr 515
QY 246 GTGGAC 251
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Db 516 ValAsp 517

RESULT 15
US-09-606-421B-169
; Sequence 169, Application US/09606421B
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; Patent No. 6531315
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Ligu
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.455C9
; CURRENT APPLICATION NUMBER: US/09/606,421B
; NUMBER OF SEQ ID NOS: 358
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 169
; LENGTH: 592
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-606-421B-169

Alignment Scores:
Pred. No.: 11e-16 Length: 592
Score: 194.00 Matches: 40
Percent Similarity: 67.07% Conservative: 15
Best Local Similarity: 48.78% Mismatches: 27
Query Match: 40.00% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-8 (1-253) x US-09-606-421B-169 (1-592)
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Db 436 SerGlySerThrIleHisSerIleAlaLeuGlySerSerAlaAlaProAsnLeuGlu 455
QY 66 CTGTCCTCAAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTCAGAACATGGC 125
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Db 456 LeuSerArgLeuThrGlyGlyLeuLysPheValProAspIleSerAsnSer 475
QY 126 CTCATTGATGCTTTGGGGCCCTTTCATCAGGAATGGAGCTGCTCTCAGCGCTCCATC 185
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Db 476 MetIleAspAlaPheSerArgIleSerGlyThrGlyAspIlePheGlnHisIle 495
QY 186 CAGCTTGAGAGTAAGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAGTGATC 245
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 496 GlnLeuGluSerThrGlyGluAsnValLysProHisGlnLeuLysAsnThrValThr 515
QY 246 GTGGAC 251
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Db 516 ValAsp 517

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Job time : 16.9104 secs
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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 24, 2004, 04:05:52 ; Search time 154.661 Seconds  
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Perfect score: 289  
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Scoring table: IDENTITY NUC  
Gapop 10\_0 , Gapext 1.0

Searched: 2907579 seqs, 2254313464 residues

Total number of hits satisfying chosen parameters: 5815158

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications\_NA.\*  
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19: /cgn2\_6/prodata/2/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	288	99.7	2745	15	US-10-270-595-5
2	288	99.7	2854	15	US-10-106-698-1971
3	288	99.7	2867	15	US-10-106-698-351
4	288	99.7	3007	15	US-10-055-412B-27
5	288	99.7	3109	15	US-10-106-698-2111
6	288	99.7	3111	9	US-09-823-356-25
7	288	99.7	3111	9	US-09-881-353-191
8	288	99.7	3111	15	US-10-235-994-25
9	288	99.7	3267	9	US-09-764-868-22
10	288	99.7	3311	9	US-09-832-217-1056
11	288	99.7	3311	9	US-09-833-263-1056
12	288	99.7	3311	14	US-10-025-380-1056
13	288	99.7	3311	15	US-10-393-590-11
14	288	99.7	3311	15	US-10-393-590-12

15	288	99.7	3311	15	US-10-393-590-46	Sequence 46, Appl
16	288	99.7	3311	15	US-10-393-590-47	Sequence 47, Appl
17	288	99.7	3311	15	US-10-393-567-11	Sequence 11, Appl
18	288	99.7	3311	15	US-10-393-567-12	Sequence 12, Appl
19	288	99.7	3311	15	US-10-393-567-46	Sequence 46, Appl
20	288	99.7	3311	15	US-10-393-567-47	Sequence 47, Appl
21	288	99.7	3311	15	US-10-394-087-11	Sequence 11, Appl
22	288	99.7	3311	15	US-10-394-087-12	Sequence 12, Appl
23	288	99.7	3311	15	US-10-394-087-46	Sequence 46, Appl
24	288	99.7	3311	15	US-10-394-087-47	Sequence 47, Appl
25	288	99.7	4569	10	US-09-867-034-3	Sequence 3, Appl
26	288	99.7	4569	13	US-10-276-115-3	Sequence 3, Appl
27	205	70.9	1512	16	US-10-305-720-850	Sequence 850, App
28	200.6	69.4	2931	15	US-10-270-595-1	Sequence 1, Appl
29	176.8	61.2	527	15	US-10-066-543-2111	Sequence 2111, Ap
30	159.8	55.3	2754	15	US-10-345-680-33	Sequence 33, Appl
31	159.8	55.3	3043	14	US-10-025-167-16	Sequence 16, Appl
32	159.8	55.3	3169	9	US-09-981-353-53	Sequence 53, Appl
33	159.8	55.3	3169	15	US-10-235-994-15	Sequence 15, Appl
34	159.8	55.3	3181	14	US-10-025-167-18	Sequence 18, Appl
35	159.8	55.3	3195	10	US-09-867-034-22	Sequence 22, Appl
36	159.8	55.3	3195	13	US-10-276-115-22	Sequence 22, Appl
37	159.8	55.3	3196	15	US-10-158-646-39	Sequence 39, Appl
38	159.8	55.3	3199	13	US-10-276-774-993	Sequence 993, App
39	159.8	55.3	3204	15	US-10-345-680-31	Sequence 31, Appl
40	159.8	55.3	3207	15	US-10-101-510-660	Sequence 660, App
41	159.8	55.3	3218	16	US-10-087-080-33	Sequence 33, Appl
42	159.8	55.3	3265	9	US-09-989-723-378	Sequence 378, App
43	159.8	55.3	3265	9	US-09-989-723-378	Sequence 378, App
44	159.8	55.3	3265	9	US-09-989-723-378	Sequence 378, App
45	159.8	55.3	3265	9	US-09-989-723-378	Sequence 378, App

ALIGNMENTS

RESULT 1  
US-10-270-595-5  
; Sequence 5, Application US/10270595  
; Publication No. US20030078409A1  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; PRIOR FILING DATE: 2002-10-16  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 2745

TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (1)..(2742)  
US-10-270-595-5

Query Match 99.7%; Score 288; DB 15; Length 2745;  
Best Local Similarity 99.7%; Pred. No. 1.6e-89;  
Matches 288; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GAAATATCAACTGATGATCTGAAATTTGCTGTGCTGACGGATGGGAAGACAAACACTAT 60  
DB 1194 GAAATATCAACTGATGATCTGAAATTTGCTGTGCTGACGGATGGGAAGACAAACACTAT 1253  
QY 61 AAGTGGGTGCTTTAAGAGGTCAAAACAAAGTGTGCCATCCACACAGTCGCTTTGGG 120  
DB 1254 AAGTGGGTGCTTTAAGAGGTCAAAACAAAGTGTGCCATCCACACAGTCGCTTTGGG 1313  
QY 121 GCCCTCTGAGCTCAAGAACTAGAGGAGCTGTCCAAATGACAGGAGTTTACACACATA 180  
DB 1314 GCCCTCTGAGCTCAAGAACTAGAGGAGCTGTCCAAATGACAGGAGTTTACACACATA 1373  
QY 181 TGCCTTCAGATCAAGTTTCAAGAACTAGAGGAGCTGTCCAAATGACAGGAGTTTACACAGG 240  
DB 1374 TGCCTTCAGATCAAGTTTCAAGAACTAGAGGAGCTGTCCAAATGACAGGAGTTTACACAGG 1433  
QY 241 AAATGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 289  
DB 1434 AAATGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 1482

RESULT 2  
US-10-106-698-1971  
; Sequence 1971, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 1971  
; LENGTH: 2854  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-106-698-1971

Query Match 99.7%; Score 288; DB 15; Length 2854;  
Best Local Similarity 99.7%; Pred. No. 1.6e-89;  
Matches 288; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GAAATATCAACTGATGATCTGAAATTTGCTGTGCTGACGGATGGGAAGACAAACACTAT 60  
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QY 61 AAGTGGGTGCTTTAAGAGGTCAAAACAAAGTGTGCCATCCACACAGTCGCTTTGGG 120  
DB 1288 AAGTGGGTGCTTTAAGAGGTCAAAACAAAGTGTGCCATCCACACAGTCGCTTTGGG 1347  
QY 121 GCCCTCTGAGCTCAAGAACTAGAGGAGCTGTCCAAATGACAGGAGTTTACACACATA 180  
DB 1348 GCCCTCTGAGCTCAAGAACTAGAGGAGCTGTCCAAATGACAGGAGTTTACACACATA 1407  
QY 181 TGCCTTCAGATCAAGTTTCAAGAACTAGAGGAGCTGTCCAAATGACAGGAGTTTACACAGG 240

DB 1408 TGCCTTCAGATCAAGTTTCAAGAACTAGAGGAGCTGTCCAAATGACAGGAGTTTACACAGG 1467  
QY 241 AAATGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 289  
DB 1468 AAATGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 1516

RESULT 3  
US-10-106-698-351  
; Sequence 351, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 351  
; LENGTH: 2867  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-106-698-351

Query Match 99.7%; Score 288; DB 15; Length 2867;  
Best Local Similarity 99.7%; Pred. No. 1.6e-89;  
Matches 288; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GAAATATCAACTGATGATCTGAAATTTGCTGTGCTGACGGATGGGAAGACAAACACTAT 60  
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DB 1292 AAGTGGGTGCTTTAAGAGGTCAAAACAAAGTGTGCCATCCACACAGTCGCTTTGGG 1351  
QY 121 GCCCTCTGAGCTCAAGAACTAGAGGAGCTGTCCAAATGACAGGAGTTTACACACATA 180  
DB 1352 GCCCTCTGAGCTCAAGAACTAGAGGAGCTGTCCAAATGACAGGAGTTTACACACATA 1411  
QY 181 TGCCTTCAGATCAAGTTTCAAGAACTAGAGGAGCTGTCCAAATGACAGGAGTTTACACAGG 240  
DB 1412 TGCCTTCAGATCAAGTTTCAAGAACTAGAGGAGCTGTCCAAATGACAGGAGTTTACACAGG 1471  
QY 241 AAATGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 289  
DB 1472 AAATGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 1520

RESULT 4  
US-10-055-412B-27  
; Sequence 27, Application US/10055412B  
; Publication No. US20030059861A1  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedict U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 27  
 ; LENGTH: 3007  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-10-055-412B-27

Query Match 99.7%; Score 288; DB 15; Length 3007;  
 Best Local Similarity 99.7%; Pred. No. 1.7e-89;  
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 DB 1360 GCCCTCTGCAGCTCAAGAAGTACAGAGGCTGTCGAAATGACAGAGGTTTACAGACATA 1419  
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 DB 1420 TGCCTCAGATCAAGTTTCAGAACAAATGGCTCATTCATGCTTTGGGGCCCTTTTCATCAGG 1479  
 QY 241 AAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 289  
 DB 1480 AAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 1528

RESULT 5  
 US-10-106-698-2111  
 ; Sequence 2111, Application US/10106698  
 ; Publication No. US20030109690A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ruben et al.  
 ; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide  
 ; FILE REFERENCE: PA005P1  
 ; CURRENT APPLICATION NUMBER: US/10/106,698  
 ; PRIOR FILING DATE: 2002-03-27  
 ; PRIOR APPLICATION NUMBER: PCT/US00/26524  
 ; PRIOR FILING DATE: 2000-09-28  
 ; PRIOR APPLICATION NUMBER: US 60/157,137  
 ; PRIOR FILING DATE: 1999-09-29  
 ; PRIOR APPLICATION NUMBER: US 60/163,280  
 ; PRIOR FILING DATE: 1999-11-03  
 ; NUMBER OF SEQ ID NOS: 8564  
 ; SOFTWARE: PatentIn Ver. 3.0  
 ; SEQ ID NO 2111  
 ; LENGTH: 3109  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-10-106-698-2111

Query Match 99.7%; Score 288; DB 15; Length 3109;  
 Best Local Similarity 99.7%; Pred. No. 1.7e-89;  
 Matches 288; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GAAATATCCAATGATGATCTGAAATTTGCTGCTGACGGATGGGGAAGACAACACTAT 60  
 DB 1081 GAAATATCCAATGATGATCTGAAATTTGCTGCTGACGGATGGGGAAGACAACACTAT 1140  
 QY 61 AAGTGGGTGCTTTAAACGAGGTCAAAACAAAGTNGTCCATCATCCACACAGTCGCTTTGGG 120  
 DB 1141 AAGTGGGTGCTTTAAACGAGGTCAAAACAAAGTNGTCCATCATCCACACAGTCGCTTTGGG 1200  
 QY 121 GCCCTCTGCAGCTCAAGAAGTACAGAGGCTGTCGAAATGACAGAGGTTTACAGACATA 180  
 DB 1201 GCCCTCTGCAGCTCAAGAAGTACAGAGGCTGTCGAAATGACAGAGGTTTACAGACATA 1260  
 QY 181 TGCCTCAGATCAAGTTTCAGAACAAATGGCTCATTCATGATCTTTGGGGCCCTTTTCATCAGG 240

; SEQ ID NO 27  
 ; LENGTH: 3007  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-10-055-412B-27

Query Match 99.7%; Score 288; DB 15; Length 3007;  
 Best Local Similarity 99.7%; Pred. No. 1.7e-89;  
 Matches 288; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 241 AAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 289  
 DB 1321 AAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 1369

RESULT 6  
 US-09-823-356-25  
 ; Sequence 25, Application US/09823356  
 ; Patent No. US20010025098A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Tang, Y. Tom  
 ; APPLICANT: Bandman, Olga  
 ; APPLICANT: Lal, Preeti  
 ; APPLICANT: Hillman, Jennifer L.  
 ; APPLICANT: Yue, Henry  
 ; APPLICANT: Corley, Neil C.  
 ; APPLICANT: Guegler, Karl J.  
 ; APPLICANT: Kaser, Matthew R.  
 ; APPLICANT: Baughn, Mariah R.  
 ; APPLICANT: Shah, Purvi  
 ; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
 ; FILE REFERENCE: PF-0489-1 CON  
 ; CURRENT APPLICATION NUMBER: US/09/823,356  
 ; PRIOR FILING DATE: 2001-03-30  
 ; PRIOR APPLICATION NUMBER: 09/039,307  
 ; PRIOR FILING DATE: 1998 March 13  
 ; NUMBER OF SEQ ID NOS: 34  
 ; SOFTWARE: PERL Program  
 ; SEQ ID NO 25  
 ; LENGTH: 3111  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: misc\_feature  
 ; OTHER INFORMATION: Inocyte ID No. US20010025098A1 1737775  
 US-09-823-356-25

Query Match 99.7%; Score 288; DB 9; Length 3111;  
 Best Local Similarity 99.7%; Pred. No. 1.7e-89;  
 Matches 288; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GAAATATCCAATGATGATCTGAAATTTGCTGCTGACGGATGGGGAAGACAACACTAT 60  
 DB 1227 GAAATATCCAATGATGATCTGAAATTTGCTGCTGACGGATGGGGAAGACAACACTAT 1286  
 QY 61 AAGTGGGTGCTTTAAACGAGGTCAAAACAAAGTNGTCCATCATCCACACAGTCGCTTTGGG 120  
 DB 1287 AAGTGGGTGCTTTAAACGAGGTCAAAACAAAGTNGTCCATCATCCACACAGTCGCTTTGGG 1346  
 QY 121 GCCCTCTGCAGCTCAAGAAGTACAGAGGCTGTCGAAATGACAGAGGTTTACAGACATA 180  
 DB 1347 GCCCTCTGCAGCTCAAGAAGTACAGAGGCTGTCGAAATGACAGAGGTTTACAGACATA 1406  
 QY 181 TGCCTCAGATCAAGTTTCAGAACAAATGGCTCATTCATGATCTTTGGGGCCCTTTTCATCAGG 240  
 DB 1407 TGCCTCAGATCAAGTTTCAGAACAAATGGCTCATTCATGATCTTTGGGGCCCTTTTCATCAGG 1466

; SEQ ID NO 27  
 ; LENGTH: 3007  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-10-055-412B-27

Query Match 99.7%; Score 288; DB 15; Length 3007;  
 Best Local Similarity 99.7%; Pred. No. 1.7e-89;  
 Matches 288; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 241 AAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 289  
 DB 1467 AAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 1515

RESULT 7  
 US-09-981-353-191  
 ; Sequence 191, Application US/09981353  
 ; Patent No. US20020160382A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Lasek, Amy W.  
 ; APPLICANT: Jones, David A.  
 ; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
 ; FILE REFERENCE: PA-0038 US  
 US-09-981-353-191

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; CURRENT APPLICATION NUMBER: US/09/981,353
; CURRENT FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO 191
; LENGTH: 3111
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CB1
US-09-981-353-191

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Query Match	99.7%;	Score 288;	DB 9;	Length 3111;
Best Local Similarity	99.7%;	Pred. No. 1.7e-89;		
Matches 288;	Conservative 0;	Mismatches 1;	Indels 0;	Gaps 0;
Qy	1	GAATATCCAACTCATGATCTGAAATTGTGCTGCTGACGGATGGGGAACACACACTAT	60	
Db	1227	GAATATCCAACTGATGATCTGAAATTGTGCTGCTGACGGATGGGGAACACACTAT	1286	
Qy	61	AAGTGGGTGCTTTAAACGAGGTCAAACAAAGTNGTGCCATCATCCACACAGTCGCTTTGGG	120	
Db	1287	AAGTGGGTGCTTTAAACGAGGTCAAACAAAGTGTGCCATCATCCACACAGTCGCTTTGGG	1346	
Qy	121	GCCTCTGCAAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGGAGGTTTACAGACATA	180	
Db	1347	GCCTCTGCAAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGGAGGTTTACAGACATA	1406	
Qy	181	TGCTTCAGATCAAGTTCAGAACAAATGCCTTCATTTGATGCTTTTGGGCCCCTTTTCATCAGG	240	
Db	1407	TGCTTCAGATCAAGTTCAGAACAAATGCCTTCATTTGATGCTTTTGGGCCCCTTTTCATCAGG	1466	
Qy	241	AAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA	289	
Db	1467	AAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA	1515	

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RESULT 8
US-10-235-994-25
; Sequence 25, Application US/10235994
; Publication No. US20030101002A1
; GENERAL INFORMATION:
; APPLICANT: Bartha, Gabor
; APPLICANT: Walker, Michael
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS
; FILE REFERENCE: ICYTF012
; CURRENT APPLICATION NUMBER: US/10/235,994
; CURRENT FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: US/10/003,608
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,081
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 3111
; TYPE: DNA
; ORGANISM: Human
US-10-235-994-25

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	Query Match	99.7%	Score 288	DB 15	Length 3111
	Best Local Similarity	99.7%	Prod. No. 1.7e-89		
	Matches 288	Conservative	0	Mismatches 1	Indels 0
	Gaps	0			
Qy	1	GAATAATCCAACTGATCGATCTGAAATTTGTCTCTCTGACGGATGGGAAACACACTAT	60		
Db	1227	GAAATATCCAACTGATCGATCTGAAATTTGTCTCTGACGGATGGGAAACACACTAT	1286		
Qy	61	AAGTGGGTGCTTTTAAACGAGGTCAAAACAAAGTNGTGCCATCATCCACACAGTCGCTTTGGG	120		
Db	1287	AAGTGGGTGCTTTTAAACGAGGTCAAAACAAAGTGGTGCCATCATCCACACAGTCGCTTTGGG	1346		

Qy	121	GCCTTCGAGCTCAGAACTAGGAGGCTGTCCAAATCACAAGGAGTTTACAGACATA	180
Db	1347	GCCTTCGAGCTCAGAACTAGGAGGCTGTCCAAATCACAAGGAGTTTACAGACATA	1406
Qy	181	TGCTTCAGATCAAGTTCAGAAACAATGGCTTCATTGATGCTTTTGGGGCCCTTTTCATCAGG	240
Db	1407	TGCTTCAGATCAAGTTCAGAAACAATGGCTTCATTGATGCTTTTGGGGCCCTTTTCATCAGG	1466
Qy	241	AAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGTAGAGTAAGGGATTA	289
Db	1467	AAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGTAGAGTAAGGGATTA	1515

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RESULT 9
US-09-764-868-22
; Sequence 22, Application US/09764868
; Patent No. US20020168711A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT232
; CURRENT APPLICATION NUMBER: US/09/764,868
; PRIOR FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1510
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 22
; LENGTH: 3267
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-868-22

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Query Match	99.7%	Score 288	DB 9	Length 3267
Best Local Similarity	99.7%	Pred. No. 1.7e-85		
Matches 288	Conservative 0	Mismatches 1	Indels 0	Gaps 0
QY	1	GAATAATCCAACTGATGGATCTGAAATTTGGCTGCTGACGGATGGGAAGACAACACTAT	60	
Db	1228	GAATAATCCAACTGATGGATCTGAAATTTGGCTGCTGACGGATGGGAAGACAACACTAT	1287	
QY	61	ARGTGGGTGCTTTAAACGAGGTCAAACAAAGTNGTGCCATCATCCACACAGTCGCTTTGGG	120	
Db	1288	ARGTGGGTGCTTTAAACGAGGTCAAACAAAGTNGTGCCATCATCCACACAGTCGCTTTGGG	1347	
QY	121	GCCCTCTGCAGCTCAAGAACTAGAGGAGCTGTCCAAAATCAGGAGGTTTACAGACATA	180	
Db	1348	GCCCTCTGCAGCTCAAGAACTAGAGGAGCTGTCCAAAATCAGGAGGTTTACAGACATA	1407	
QY	181	TGCTTCAGATCAAGTTCAGAACAAATGSCCTCATTGATGCTTTTGGGGCCCTTTTCATCAGG	240	
Db	1408	TGCTTCAGATCAAGTTCAGAACAAATGSCCTCATTGATGCTTTTGGGGCCCTTTTCATCAGG	1467	
QY	241	AAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA	289	
Db	1468	AAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA	1516	

RESULT 10  
US-09-922-217-1056  
; Sequence 1056, Application US/09922217  
; Patent No. US2002007641A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Seelick, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Yuxiu  
; APPLICANT: Smith, Carole Lynn  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun



```
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; CURRENT FILING DATE: 2001-08-03
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1056
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-922-217-1056

Query Match          99.7%; Score 288; DB 9; Length 3311;
Best Local Similarity 99.7%; Pred. No. 1.8e-89;
Matches 288; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GAAATATCCAAGTGGATCTGAAATTTGCTGCTGACGGATGGGGAAGACAACTAT 60
DB 1545 GAAATATCCAAGTGGATCTGAAATTTGCTGCTGACGGATGGGGAAGACAACTAT 1604

QY 61 AAGTGGTCTTTAAACGAGGTCAAAACAAAGTNGTGCATCATCCACACAGTCGCTTTGGG 120
DB 1605 AAGTGGTCTTTAAACGAGGTCAAAACAAAGTNGTGCATCATCCACACAGTCGCTTTGGG 1664

QY 121 GCCCTCTGCAGCTCAAGAACTAGAGAGCTGCCAAATGACAGGAGTTTACAGACATA 180
DB 1665 GCCCTCTGCAGCTCAAGAACTAGAGAGCTGCCAAATGACAGGAGTTTACAGACATA 1724

QY 181 TCGTTTCAGATCAAGTTTCAAGAACTAGAGAGCTGCCAAATGACAGGAGTTTACAGACATA 240
DB 1725 TCGTTTCAGATCAAGTTTCAAGAACTAGAGAGCTGCCAAATGACAGGAGTTTACAGACATA 1784

QY 241 AAATGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAAGGGATTA 289
DB 1785 AAATGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAAGGGATTA 1833

RESULT 11
US-09-833-263-1056
; Sequence 1056, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Stolck, John A.
; APPLICANT: Meagher, Madeleine J.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; FILE REFERENCE: 210121.471C12
; CURRENT APPLICATION NUMBER: US/09/833,263
; CURRENT FILING DATE: 2001-04-10
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1056
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-833-263-1056

Query Match          99.7%; Score 288; DB 9; Length 3311;
Best Local Similarity 99.7%; Pred. No. 1.8e-89;
Matches 288; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GAAATATCCAAGTGGATCTGAAATTTGCTGCTGACGGATGGGGAAGACAACTAT 60
DB 1545 GAAATATCCAAGTGGATCTGAAATTTGCTGCTGACGGATGGGGAAGACAACTAT 1604

QY 61 AAGTGGTCTTTAAACGAGGTCAAAACAAAGTNGTGCATCATCCACACAGTCGCTTTGGG 120
DB 1605 AAGTGGTCTTTAAACGAGGTCAAAACAAAGTNGTGCATCATCCACACAGTCGCTTTGGG 1664

QY 121 GCCCTCTGCAGCTCAAGAACTAGAGAGCTGCCAAATGACAGGAGTTTACAGACATA 180
DB 1665 GCCCTCTGCAGCTCAAGAACTAGAGAGCTGCCAAATGACAGGAGTTTACAGACATA 1724

QY 181 TCGTTTCAGATCAAGTTTCAAGAACTAGAGAGCTGCCAAATGACAGGAGTTTACAGACATA 240
DB 1725 TCGTTTCAGATCAAGTTTCAAGAACTAGAGAGCTGCCAAATGACAGGAGTTTACAGACATA 1784

QY 241 AAATGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAAGGGATTA 289
DB 1785 AAATGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAAGGGATTA 1833

RESULT 13
US-09-833-263-1056
; Sequence 1056, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Stolck, John A.
; APPLICANT: Meagher, Madeleine J.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; FILE REFERENCE: 210121.471C12
; CURRENT APPLICATION NUMBER: US/09/833,263
; CURRENT FILING DATE: 2001-04-10
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1056
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-833-263-1056

Query Match          99.7%; Score 288; DB 9; Length 3311;
Best Local Similarity 99.7%; Pred. No. 1.8e-89;
Matches 288; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GAAATATCCAAGTGGATCTGAAATTTGCTGCTGACGGATGGGGAAGACAACTAT 60
DB 1545 GAAATATCCAAGTGGATCTGAAATTTGCTGCTGACGGATGGGGAAGACAACTAT 1604

QY 61 AAGTGGTCTTTAAACGAGGTCAAAACAAAGTNGTGCATCATCCACACAGTCGCTTTGGG 120
DB 1605 AAGTGGTCTTTAAACGAGGTCAAAACAAAGTNGTGCATCATCCACACAGTCGCTTTGGG 1664
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US-10-393-590-11
; Sequence 11, Application US/10393590
; Publication No. US20030190656A1
; GENERAL INFORMATION:
; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO
; FILE REFERENCE: CDS 268 US NP
; CURRENT APPLICATION NUMBER: US/10/393,590
; CURRENT FILING DATE: 2003-03-21
; PRIOR APPLICATION NUMBER: 60/368,789
; PRIOR FILING DATE: 2002-03-29
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: human
US-10-393-590-11

Query Match      99.7%; Score 288; DB 15; Length 3311;
Best Local Similarity 99.7%; Pred. No. 1.8e-89;
Matches 288; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GAAATATCCAACTGATGGATCTCAAAATTTGCTGTGCTGACGGATGGGGAAGACAACTAT 60
DB 1545 GAAATATCCAACTGATGGATCTGAAATTTGCTGTGCTGACGGATGGGGAAGACAACTAT 1604
QY 61 AAGTGGTGCTTTAAGCAGGTCAAAAGTNGTGCATCATCCACAGTGCCTTTTCATCAGG 120
DB 1605 AAGTGGTGCTTTAAGCAGGTCAAAAGTNGTGCATCATCCACAGTGCCTTTTCATCAGG 1664
QY 121 GCCCTCTGCAGCTCAAGAACTAGAGAGCTGTCCAAAATGACAGAGGTTTACAGACATA 180
DB 1665 GCCCTCTGCAGCTCAAGAACTAGAGAGCTGTCCAAAATGACAGAGGTTTACAGACATA 1724
QY 181 TGCTTCAGATCAAGTTCAAGAACTAGAGAGCTGTCCAAAATGACAGAGGTTTACAGACATA 240
DB 1725 TGCTTCAGATCAAGTTCAAGAACTAGAGAGCTGTCCAAAATGACAGAGGTTTACAGACATA 1784
QY 241 AAGTGGAGTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 289
DB 1785 AAGTGGAGTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 1833

RESULT 14
US-10-393-590-12
; Sequence 12, Application US/10393590
; Publication No. US20030190656A1
; GENERAL INFORMATION:
; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO
; FILE REFERENCE: CDS 268 US NP
; CURRENT APPLICATION NUMBER: US/10/393,590
; CURRENT FILING DATE: 2003-03-21
; PRIOR APPLICATION NUMBER: 60/368,789
; PRIOR FILING DATE: 2002-03-29
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 12
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: human
US-10-393-590-12

Query Match      99.7%; Score 288; DB 15; Length 3311;
Best Local Similarity 99.7%; Pred. No. 1.8e-89;
Matches 288; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GAAATATCCAACTGATGGATCTCAAAATTTGCTGTGCTGACGGATGGGGAAGACAACTAT 60
DB 1545 GAAATATCCAACTGATGGATCTGAAATTTGCTGTGCTGACGGATGGGGAAGACAACTAT 1604
QY 61 AAGTGGTGCTTTAAGCAGGTCAAAAGTNGTGCATCATCCACAGTGCCTTTTCATCAGG 120
DB 1605 AAGTGGTGCTTTAAGCAGGTCAAAAGTNGTGCATCATCCACAGTGCCTTTTCATCAGG 1664
QY 121 GCCCTCTGCAGCTCAAGAACTAGAGAGCTGTCCAAAATGACAGAGGTTTACAGACATA 180
DB 1665 GCCCTCTGCAGCTCAAGAACTAGAGAGCTGTCCAAAATGACAGAGGTTTACAGACATA 1724
QY 181 TGCTTCAGATCAAGTTCAAGAACTAGAGAGCTGTCCAAAATGACAGAGGTTTACAGACATA 240
DB 1725 TGCTTCAGATCAAGTTCAAGAACTAGAGAGCTGTCCAAAATGACAGAGGTTTACAGACATA 1784
QY 241 AAGTGGAGTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 289
DB 1785 AAGTGGAGTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 1833

RESULT 15
US-10-393-590-46
; Sequence 46, Application US/10393590
; Publication No. US20030190656A1
; GENERAL INFORMATION:
; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO
; FILE REFERENCE: CDS 268 US NP
; CURRENT APPLICATION NUMBER: US/10/393,590
; CURRENT FILING DATE: 2003-03-21
; PRIOR APPLICATION NUMBER: 60/368,789
; PRIOR FILING DATE: 2002-03-29
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 46
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: human
US-10-393-590-46

Query Match      99.7%; Score 288; DB 15; Length 3311;
Best Local Similarity 99.7%; Pred. No. 1.8e-89;
Matches 288; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GAAATATCCAACTGATGGATCTCAAAATTTGCTGTGCTGACGGATGGGGAAGACAACTAT 60
DB 1545 GAAATATCCAACTGATGGATCTGAAATTTGCTGTGCTGACGGATGGGGAAGACAACTAT 1604
QY 61 AAGTGGTGCTTTAAGCAGGTCAAAAGTNGTGCATCATCCACAGTGCCTTTTCATCAGG 120
DB 1605 AAGTGGTGCTTTAAGCAGGTCAAAAGTNGTGCATCATCCACAGTGCCTTTTCATCAGG 1664
QY 121 GCCCTCTGCAGCTCAAGAACTAGAGAGCTGTCCAAAATGACAGAGGTTTACAGACATA 180
DB 1665 GCCCTCTGCAGCTCAAGAACTAGAGAGCTGTCCAAAATGACAGAGGTTTACAGACATA 1724
QY 181 TGCTTCAGATCAAGTTCAAGAACTAGAGAGCTGTCCAAAATGACAGAGGTTTTCATCAGG 240
DB 1725 TGCTTCAGATCAAGTTCAAGAACTAGAGAGCTGTCCAAAATGACAGAGGTTTTCATCAGG 1784
QY 241 AAGTGGAGTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 289
DB 1785 AAGTGGAGTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 1833

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Job time : 154.661 secs
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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: April 24, 2004, 00:33:00 ; Search time 26.5649 Seconds  
(without alignments)  
6037.311 Million cell updates/sec

Title: US-09-049-696-7

Perfect score: 289

Sequence: 1 GAATATCCAACTGATGAT.....AGCTTGAGAGTAAGCGATTA 289

Scoring table: IDENTITY\_NUC

Gapop 10\_0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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2: /cgn2\_6/ptodata/2/ina/5B-COMB.seq: \*  
3: /cgn2\_6/ptodata/2/ina/6A-COMB.seq: \*  
4: /cgn2\_6/ptodata/2/ina/6B-COMB.seq: \*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	288	99.7	2745	4	US-09-623-624-5
2	288	99.7	3007	4	US-09-193-562D-27
3	205	70.9	1512	4	US-09-016-434-850
4	200.6	69.4	2931	4	US-09-623-624-1
5	159.8	55.3	3043	4	US-09-049-698-16
6	159.8	55.3	3181	4	US-09-049-698-18
7	111	38.4	3317	4	US-09-193-562D-1
8	103	35.6	3022	4	US-09-193-562D-33
9	94.2	32.6	590	4	US-09-643-597-132
10	94.2	32.6	590	4	US-09-480-884A-132
11	94.2	32.6	590	4	US-09-542-615A-132
12	94.2	32.6	590	4	US-09-606-421B-132
13	94.2	32.6	590	4	US-09-221-107-132
14	94.2	32.6	2773	4	US-09-643-597-358
15	94.2	32.6	2784	4	US-09-643-597-168
16	94.2	32.6	2784	4	US-09-480-884A-168
17	94.2	32.6	2784	4	US-09-542-615A-168
18	94.2	32.6	2784	4	US-09-606-421B-168
19	94.2	32.6	2970	4	US-09-193-562D-31
20	94.2	32.6	3156	4	US-09-919-172-86
21	94.2	32.6	3190	4	US-09-623-624-3
22	94.2	32.6	3362	4	US-09-643-597-167
23	94.2	32.6	3362	4	US-09-480-884A-167
24	94.2	32.6	3362	4	US-09-542-615A-167
25	94.2	32.6	3362	4	US-09-606-421B-167
26	94.2	32.6	3351	4	US-09-643-597-160
27	94.2	32.6	3351	4	US-09-480-884A-160

28	94.2	32.6	3951	4	US-09-542-615A-160	Sequence 160, App
29	94.2	32.6	3951	4	US-09-606-421B-160	Sequence 160, App
30	94.2	32.6	3951	4	US-09-221-107-160	Sequence 160, App
31	94.2	32.6	8031	4	US-09-643-597-254	Sequence 254, App
32	94.2	32.6	8031	4	US-09-480-884A-254	Sequence 254, App
33	94.2	32.6	8031	4	US-09-542-615A-254	Sequence 254, App
34	94.2	32.6	8031	4	US-09-606-421B-254	Sequence 254, App
35	84.6	29.3	3418	4	US-09-193-562D-29	Sequence 29, Appli
36	79.4	27.5	216	4	US-09-049-698-5	Sequence 5, Appli
37	79.4	27.5	619	4	US-09-016-434-931	Sequence 931, Appli
38	30.8	10.7	1090	4	US-09-107-532A-3363	Sequence 3363, Ap
39	30.2	10.4	128779	4	US-09-497-855A-38	Sequence 38, Appli
C 40	30	10.4	1548	4	US-09-328-352-3186	Sequence 3186, Ap
C 41	29	10.0	1497	4	US-09-220-132-94	Sequence 94, Appli
42	29	10.0	4821	3	US-08-913-374-1	Sequence 1, Appli
43	29	10.0	1830121	4	US-09-557-884-1	Sequence 1, Appli
44	29	10.0	1830121	4	US-09-643-990A-1	Sequence 1, Appli
C 45	28.8	10.0	282	4	US-09-313-294A-5466	Sequence 5466, Ap

ALIGNMENTS

RESULT 1  
US-09-623-624-5  
; Sequence 5, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 2745  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(2742)  
US-09-623-624-5

Query Match 99.7%; Score 288; DB 4; Length 2745;  
Best Local Similarity 99.7%; Pred. No. 7.5e-91;  
Matches 288; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GAAATATCAACTGATGATCTGAATTTGCTGCTGACGGATGGGAAGACAACTAT 60  
DB 1194 GAAATATCAACTGATGATCTGAATTTGCTGCTGACGGATGGGAAGACAACTAT 1253  
QY 61 AAGTGGGTGCTTTAACGAGGTCAAAACAAAGTGTGCTATCCACACAGTGGCTTTGGG 120  
DB 1254 AAGTGGGTGCTTTAACGAGGTCAAAACAAAGTGTGCTATCCACACAGTGGCTTTGGG 1313  
QY 121 GCCCTCTGAGCTCAAGAACTAGAGAGCTGTCCAAATGACAGGAGTTTACAGACATA 180  
DB 1314 GCCCTCTGAGCTCAAGAACTAGAGAGCTGTCCAAATGACAGGAGTTTACAGACATA 1373  
QY 181 TGCTTCAGATCAAGTTTCAGAACAAAGTGTGCTATCCACACAGTGGCTTTTCATCAGG 240  
DB 1374 TGCTTCAGATCAAGTTTCAGAACAAAGTGTGCTATCCACACAGTGGCTTTTCATCAGG 1433  
QY 241 AAATGGAGTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 289  
DB 1434 AAATGGAGTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 1482

## RESULT 2

US-09-193-562D-27  
; Sequence 27, Application US/09193562D  
; Patent No. 6309857

; GENERAL INFORMATION:  
; APPLICANT: Faull, Benedicht U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 27  
; LENGTH: 3007  
; TYPE: DNA  
; ORGANISM: Homo sapiens

US-09-193-562D-27

Query Match 99.7%; Score 288; DB 4; Length 3007;  
Best Local Similarity 99.7%; Pred No. 7.9e-91;  
Matches 288; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GAAATATCAACTGATGATCTGAATTTGCTGCTGACGGATGGGAAGACAACTAT 60  
DB 1240 GAAATATCAACTGATGATCTGAATTTGCTGCTGACGGATGGGAAGACAACTAT 1299  
QY 61 AAGTGGGTGCTTTAACGAGGTCAAAACAAAGTGTGCTATCCACACAGTGGCTTTGGG 120  
DB 1300 AAGTGGGTGCTTTAACGAGGTCAAAACAAAGTGTGCTATCCACACAGTGGCTTTGGG 1359  
QY 121 GCCCTCTGAGCTCAAGAACTAGAGAGCTGTCCAAATGACAGGAGTTTACAGACATA 180  
DB 1360 GCCCTCTGAGCTCAAGAACTAGAGAGCTGTCCAAATGACAGGAGTTTACAGACATA 1419  
QY 181 TGCTTCAGATCAAGTTTCAGAACAAAGTGTGCTATCCACACAGTGGCTTTTCATCAGG 240  
DB 1420 TGCTTCAGATCAAGTTTCAGAACAAAGTGTGCTATCCACACAGTGGCTTTTCATCAGG 1479  
QY 241 AAATGGAGTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 289  
DB 1480 AAATGGAGTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 1528

## RESULT 3

US-09-016-434-850

; Sequence 850, Application US/09016434  
; Patent No. 6500938

; GENERAL INFORMATION:  
; APPLICANT: Janice Au-Young

; APPLICANT: Jeffrey J. Seilhamer  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
; NUMBER OF SEQUENCES: 1490

; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.

; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304

; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2

; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/016,434  
; FILING DATE: HEREWITH

; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Zeller, Karen J.  
; REGISTRATION NUMBER: 37,071  
; REFERENCE/DOCKET NUMBER: PA-0002 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (650) 855-0555  
; TELEFAX: (650) 845-4166  
; INFORMATION FOR SEQ ID NO: 850:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1512 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: COLNNOT01  
; CLONE: 608819  
; US-09-016-434-850

Query Match 70.9%; Score 205; DB 4; Length 1512;  
Best Local Similarity 99.5%; Pred No. 7.3e-62;  
Matches 205; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 84 AACAAAGTGTGCCATCATCCACACAGTGGCTTTGGGGCCCTCTCGAGCTCAAGAACTAG 143  
DB 1 AACAAAGTGTGCCATCATCCACACAGTGGCTTTGGGGCCCTCTCGAGCTCAAGAACTAG 60  
QY 144 AGGAGCTGTCCAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTCAAGACA 203  
DB 61 AGGAGCTGTCCAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTCAAGACA 120  
QY 204 ATGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCT 263  
DB 121 ATGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCT 180  
QY 264 CCATCCAGCTTGAGAGTAAGGGATTA 289  
DB 181 CCATCCAGCTTGAGAGTAAGGGATTA 206

## RESULT 4

US-09-623-624-1

; Sequence 1, Application US/09623624  
; Patent No. 6576434

; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.

; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO

; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 2931  
; TYPE: DNA  
; ORGANISM: Mus musculus  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (8)...(2746)  
US-09-623-624-1

Query Match 69.4%; Score 200.6; DB 4; Length 2931;  
Best Local Similarity 80.9%; Pred. No. 3.6e-60;  
Matches 233; Conservative 0; Mismatches 55; Indels 0; Gaps 0;

QY 1 GAAATATCAACTGATGATCTGAATTTGCTGCTGACGGATGGGGAAGACAACTAT 60  
DB 1204 GAAGTATCAACTGATGATCTGAATTTGCTGCTGACGGATGGGGAAGACAACTAT 1263

QY 61 AAGTGGGTCTTAAAGAGGTCAAAAGATGTCATCCACACAGTCGCTTTGGG 120  
DB 1264 TAGCAGCTCTTGACCTGGTGAAGCAGAGCGGGCCATCATCCATACAGTGGCCCTGGG 1323

QY 121 GCCCTCTGAGCTCAAGAACTAGAGAGCTGTCCAAAATGACAGGAGGTTTACAGACATA 180  
DB 1324 ACCGGCTCGCTAAAGAGCTTGAGCAGCTGTCCAAAATGACAGGAGGCTCGACACATA 1383

QY 181 TGCCTCAGATCAAGTTCAAGAACTAGAGGCTTATGATGCTTTTGGGGCCCTTTCATCAGG 240  
DB 1384 CTCTTCGATCAGGTTCAAGAACTAGAGGCTTATGATGCTTTTGGGGCCCTTTCATCAGG 1443

QY 241 AAATGAGCTGCTCTCAGCGCTCCATCCAGCTTCGAGAGTAAAGGATT 288  
DB 1444 AAATGAGCTGCTCTCAGCGCTCCATCCAGCTTCGAGAGTAAAGGATT 1491

RESULT 5  
US-09-698-16  
; Sequence 16, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, NAURICE  
; APPLICANT: COLPITS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLASS, MICHAEL R.

; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; TITLE OF INVENTION: TRACT  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park  
; STATE: IL  
; COUNTRY: USA  
; ZIP: 60064-3500  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/049,698  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/828,856  
; FILING DATE: 31-MAR-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Becker, Cheryl L.  
; REGISTRATION NUMBER: 35,441  
; REFERENCE/DOCKET NUMBER: 6068.US.PI  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 847/935-1729  
; TELEFAX: 847/938-2623  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 16:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 3043 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-09-049-698-16

Query Match 55.3%; Score 159.8; DB 4; Length 3043;  
Best Local Similarity 73.6%; Pred. No. 7.6e-46;  
Matches 203; Conservative 0; Mismatches 73; Indels 0; Gaps 0;

QY 14 GATGATCTGAATTTGCTGCTGACGGATGGGGAAGACAACTATAGTGGTCTTT 73  
DB 1223 GATGATCCGAAGTACTGCTGCTGATGGGGAAGATAACACTGCAAGTTTCTGTATT 1282

QY 74 AACGAGGTCAAAACAAGTNGTCCCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCT 133  
DB 1283 GATGAAGTGAACAAGTGGGCCAATGTTCAATTTATTTGCTTTGGGAAGAGCTGCTGAT 1342

QY 134 CAAGAAGCTAGAGGAGCTGTCCAAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAA 193  
DB 1343 GAAGCAGTAATAGAGATGAGCAAGATAACAGCAGGAAGTCATTTTATGTTTCAGATGAA 1402

QY 194 GTTCAGAACATGGCCTCATTCATGCTTTTGGGGCCCTTTCATCAGGAATAGAGCTGTC 253  
DB 1403 GCTCAGAACATGGCCTCATTCATGCTTTTGGGGCCCTTTCATCAGGAATAGAGCTGTC 1462

QY 254 TCTCAGCGCTCCATCCAGCTTCGAGAGTAAAGGATTA 289  
DB 1463 TCCAGAAAGTCCCTTCAGCTCGAAAGTAAAGGATTA 1498

RESULT 6  
US-09-698-18  
; Sequence 18, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.

APPLICANT: COHEN, MAURICE  
APPLICANT: COLPITTS, TRACEY L.  
APPLICANT: FRIEDMAN, PAULA N.  
APPLICANT: HAYDEN, MARK  
APPLICANT: KLASS, MICHAEL R.  
APPLICANT: ROBERTS-RAPP, LISA  
APPLICANT: RUSSELL, JOHN C.  
APPLICANT: STROUPE, STEPHEN D.  
TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
TITLE OF INVENTION: TRACT  
NUMBER OF SEQUENCES: 51  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Abbott Laboratories  
STREET: 100 Abbott Park Road  
CITY: Abbott Park  
STATE: IL  
COUNTRY: USA  
ZIP: 60064-3500  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/049,698  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/828,856  
FILING DATE: 31-MAR-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Becker, Cheryl L.  
REGISTRATION NUMBER: 35,441  
REFERENCE/DOCKET NUMBER: 6068.US.P1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 847/935-1729  
TELEFAX: 847/938-2623  
TELEX:  
INFORMATION FOR SEQ ID NO: 18:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 3181 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-09-049-698-18  
Query Match 55.3%; Score 159.8; DB 4; Length 3181;  
Best Local Similarity 73.6%; Pred. No. 7.8e-46;  
Matches 203; Conservative 0; Mismatches 73; Indels 0; Gaps 0;  
QY 14 GATGATCTGAAATGTGCTGCTGACGATGGGGAAGACACACTATAGTGGGTGCTTT 73  
DB 1234 GATGATCCGAAGTACTGCTGCTGACTGATGGGAGGATAACACTGCAAGTCTTTGTATT 1293  
QY 74 AACGAGTCAACAAGTNGTCCATCATCCACAGTGGCTTTGGGGCCCTCTCGACCT 133  
DB 1294 GATGAAGTGAACAAGTGGGGCCCAATGTTCAATTTATGCTTTGGGAAGAGCTGCTGAT 1353  
QY 134 CAAGAATCTAGAGGAGCTGTCCAAAATGACAGAGGCTTTACAGACATATGCTTCAGATCAA 193  
DB 1354 GAAGCAGTAATAGATGAGCAAGATAACAGAGGAAGTCAATTTTATGTTTCAGATGAA 1413  
QY 194 GTTCAGAACATGGCTCATGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTC 253  
DB 1414 GCTCAGAACATGGCTCATGATGCTTTTGGGGCTCTTACATCAGGAAATGACTGATCTC 1473  
QY 254 TCTCAGCGCTCATCCAGCTTGAGAGTAAGGATTA 289  
DB 1474 TCCGAGAAGTCCCTTCAGCTCGAAGTAAGGATTA 1509  
RESULT 7

US-09-193-562D-1  
Sequence 1, Application US/09193562D  
Patent No. 6309857  
GENERAL INFORMATION:  
APPLICANT: Pauli, Benedicht U.  
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
FILE REFERENCE: 18617.0052  
CURRENT APPLICATION NUMBER: US/09/193,562D  
CURRENT FILING DATE: 1998-11-17  
PRIOR APPLICATION NUMBER: US/60/065,922  
PRIOR FILING DATE: 1997-11-17  
NUMBER OF SEQ ID NOS: 47  
SEQ ID NO 1  
LENGTH: 3317  
TYPE: DNA  
ORGANISM: Unknown  
FEATURE:  
OTHER INFORMATION: sequence encoding Lu-ECAM-1 and Lu-ECAM-1 associated  
OTHER INFORMATION: protein from bovine endothelial cells  
US-09-193-562D-1  
Query Match 38.4%; Score 111; DB 4; Length 3317;  
Best Local Similarity 65.1%; Pred. No. 1.1e-28;  
Matches 181; Conservative 0; Mismatches 91; Indels 6; Gaps 1;  
QY 11 ACTGATGATCTGAAATGTGCTGCTGACGATGGGGAAGACACACTATAGTGGGTGC 70  
DB 1278 ACTTCTGGTCTGAAATCATCTATTAACTGATGGGAAGATAATGAAATAAATCATGTC 1337  
QY 71 TTTAACGAGGTCAACAAAGTNGTCCATCATCCACAGTCGCTTTGGGGCCCTCTGCA 130  
DB 1338 TTTGAGGATGTAACACGAGTGGTGCAATCATCCACACCATGCTCTGGGACCTCTGCT 1397  
QY 131 GCTCAAGAACTAGAGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGAT 190  
DB 1398 GCCAAAGAACTGGAGACATTTGTCAAATATGACAGAGGATATC-----GTTTTTTTGC 1451  
QY 191 CAAGTTCAGAACATGGCTCATGATGCTTTTGGGGCCCTTCATCAGGAATGAGCT 250  
DB 1452 AATAAGACATAACTGGCCCTTACTAAATGCTTTTCAAGTAAATTTCAATAGAGTGAAGC 1511  
QY 251 GTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGAAT 288  
DB 1512 ATCACTCAGCAGGCTATTTCAGTTGGAAGCAAGCCTT 1549  
RESULT 8  
US-09-193-562D-33  
Sequence 33, Application US/09193562D  
Patent No. 6309857  
GENERAL INFORMATION:  
APPLICANT: Pauli, Benedicht U.  
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
FILE REFERENCE: 18617.0052  
CURRENT APPLICATION NUMBER: US/09/193,562D  
CURRENT FILING DATE: 1998-11-17  
PRIOR APPLICATION NUMBER: US/60/065,922  
PRIOR FILING DATE: 1997-11-17  
NUMBER OF SEQ ID NOS: 47  
SEQ ID NO 33  
LENGTH: 3022  
TYPE: DNA  
ORGANISM: Mus musculus  
US-09-193-562D-33  
Query Match 35.6%; Score 103; DB 4; Length 3022;  
Best Local Similarity 63.3%; Pred. No. 6.4e-26;  
Matches 176; Conservative 0; Mismatches 96; Indels 6; Gaps 1;  
QY 11 ACTGATGATCTGAAATGTGCTGCTGACGATGGGGAAGACACACTATAGTGGGTGC 70

Db 1230 ACTTCGGTTCTGAGATCGTATTGCTGACAGATGGGGAAGATTAATGGAATACGTTCTCTGC 1289  
Qy 71 TTTAAGCAGGTCACAAACAAAGTNGTGCATCATCCACAGTCGCTTTGGGGCCCTCTGCA 130  
Db 1290 TTTGAGGCGTCTCTCGACGGGTGCCATCATCCACACCATCGCTCTGGGGCTTGGCGT 1349  
Qy 131 GCTCAAGAACTAGAGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGAT 190  
Db 1350 GCCCGAAGACTCGAGACTCTGTGCGACATGACAGAGGCTTCTGTTCTATGCCAACAA 1409  
Qy 191 CAAAGTTCAAGAACTGCGCTCATGATGCTTTTGGGGCCCTTTCATCAGGAATGAGCT 250  
Db 1410 GACCT-----AAACAGCCTTATCGATGCTTTCAGTAGAATTTCACTACAAGTGGCAGC 1463  
Qy 251 GTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGATT 288  
Db 1464 GTCTCCAGCAGGCTCTGCAGTTGGAGAGCAAGCCTT 1501

## RESULT 9

US-09-643-597-132  
; Sequence 132, Application US/09643597  
; Patent No. 6426072  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Fan, Liqun  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Hosken, Nancy R.  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Li, Samuel X.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Skeiky, Yasir A.W.  
; APPLICANT: Henderson, Robert A.  
; APPLICANT: McNeill, Patricia D.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; FILE REFERENCE: 210121.455C11  
; CURRENT APPLICATION NUMBER: US/09/643,597  
; CURRENT FILING DATE: 2000-08-21  
; NUMBER OF SEQ ID NOS: 369  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 132  
; LENGTH: 590  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-643-597-132

Query Match 32.6%; Score 94.2; DB 4; Length 590;  
Best Local Similarity 58.7%; Pred. No. 3.3e-23;  
Matches 162; Conservative 0; Mismatches 114; Indels 0; Gaps 0;  
Qy 10 AACTGATGATCTGAAATTTGCTGCTGACGATGGGGAAGACACACTATTAAGTGGGTG 69  
Db 12 AGCTTATGCTCTGTGATGATATTAAGTACAGCGAGATGATAAGCTTCTTGGCAATTG 71  
Qy 70 CTTTAAAGAGGTCACAAAGTNGTGCATCATCCACAGTCGCTTTGGGGCCCTCTGC 129  
Db 72 CTTACCCACTGTGCTCAGCAGTGGTTCAACAATTCACCTCCATGCGCTGGGTTCATCTGC 131  
Qy 130 AGCTCAAGAACTAGAGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGA 189  
Db 132 AGCCCCAAATCTGGAGGAATATACGCTTACAGAGGTTTAAAGTCTTTGTTCCAGA 191  
Qy 190 TCAAGTTCAAGAACTAGGCTCATGATGCTTTTGGGGCCCTTTCATCAGGAATGGAGC 249  
Db 192 TATATCAAACTCCAATAGCATGATGCTTTTCAAGTAGAATTTCTCTGGAACCTGGAGA 251  
Qy 250 TGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGG 285  
Db 252 CATTTTCCAGCAACATATTCAGCTTGAAGTACAGG 287

## RESULT 10

US-09-480-884A-132  
; Sequence 132, Application US/09480884A  
; Patent No. 6482597  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Fan, Liqun  
; APPLICANT: Hosken, Nancy A.  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Fanger, Gary R.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY  
; FILE REFERENCE: 210121.455C6  
; CURRENT APPLICATION NUMBER: US/09/480,884A  
; CURRENT FILING DATE: 2001-08-27  
; NUMBER OF SEQ ID NOS: 330  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 132  
; LENGTH: 590  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-480-884A-132

Query Match 32.6%; Score 94.2; DB 4; Length 590;  
Best Local Similarity 58.7%; Pred. No. 3.3e-23;  
Matches 162; Conservative 0; Mismatches 114; Indels 0; Gaps 0;  
Qy 10 AACTGATGATCTGAAATTTGCTGCTGACGATGGGGAAGACACACTATTAAGTGGGTG 69  
Db 12 AGCTTATGCTCTGTGATGATATTAAGTACAGCGAGATGATAAGCTTCTTGGCAATTG 71  
Qy 70 CTTTAAAGAGGTCACAAAGTNGTGCATCATCCACAGTCGCTTTGGGGCCCTCTGC 129  
Db 72 CTTACCCACTGTGCTCAGCAGTGGTTCAACAATTCACCTCCATGCGCTGGGTTCATCTGC 131  
Qy 130 AGCTCAAGAACTAGAGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGA 189  
Db 132 AGCCCCAAATCTGGAGGAATATACGCTTACAGAGGTTTAAAGTCTTTGTTCCAGA 191  
Qy 190 TCAAGTTCAAGAACTAGGCTCATGATGCTTTTGGGGCCCTTTCATCAGGAATGGAGC 249  
Db 192 TATATCAAACTCCAATAGCATGATGCTTTTCAAGTAGAATTTCTCTGGAACCTGGAGA 251  
Qy 250 TGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGG 285  
Db 252 CATTTTCCAGCAACATATTCAGCTTGAAGTACAGG 287

## RESULT 11

US-09-542-615A-132  
; Sequence 132, Application US/09542615A  
; Patent No. 6518256  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Fan, Liqun  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Hosken, Nancy A.  
; APPLICANT: Fanger, Gary R.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY  
; FILE REFERENCE: 210121.455C8  
; CURRENT APPLICATION NUMBER: US/09/542,615A  
; CURRENT FILING DATE: 2000-04-14  
; NUMBER OF SEQ ID NOS: 350  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 132  
; LENGTH: 590  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-542-615A-132

Query Match 32.6%; Score 94.2; DB 4; Length 590;

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Best Local Similarity 58.7%; Pred. No. 3.3e-23;
Matches 162; Conservative 0; Mismatches 114; Indels 0; Gaps 0;

QY 10 AACTGATGGAATCTGAATTTGCTCTGACGGATGGGAGACACACATATAAGTGGGTG 69
Db 12 AGCTTATGGCTCTGTGATGATATAGTACCCAGCGGAGATGATAAGCTTCTTGGCAATTG 71
QY 70 CTTTAAACGAGGTCAAAACAAAGTNGTCCATCATCACACAGTCGCTTTGGGGCCCTCTGC 129
Db 72 CTTACCCACTGTGCTCAGCAGTGGTTCACAAATTCACCTCCATTCGCTGGGTTCATCTGC 131
QY 130 AGCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGGAGTTTACAGACATATGCTTCAGA 189
Db 132 AGCCCCAAATCTGGAGGAATATACAGCTTACAGGAGGTTTAAAGTTCTTTGTTCCAGA 191
QY 190 TCAAGTTCAGAACATGGCCTCATGATGCTTTTGGGGCCCTTTCATCAGGAATGGAGC 249
Db 192 TATATCAAACTCCAATAGCATGATTCCTTCAGTAGAATTTCTCTGGAACTGGAGA 251
QY 250 TGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGG 285
Db 252 CATTTTCCAGCAACATATTCAGCTTGAAAGTACAGG 287

RESULT 12
US-09-606-421B-132
; Sequence 132, Application US/09606421B
; Patent No. 6531315
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.455C9
; CURRENT APPLICATION NUMBER: US/09/606,421B
; CURRENT FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 358
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 132
; LENGTH: 590
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-606-421B-132

Query Match 32.6%; Score 94.2; DB 4; Length 590;
Best Local Similarity 58.7%; Pred. No. 3.3e-23;
Matches 162; Conservative 0; Mismatches 114; Indels 0; Gaps 0;

QY 10 AACTGATGGAATCTGAATTTGCTCTGACGGATGGGAGACACACATATAAGTGGGTG 69
Db 12 AGCTTATGGCTCTGTGATGATATAGTACCCAGCGGAGATGATAAGCTTCTTGGCAATTG 71
QY 70 CTTTAAACGAGGTCAAAACAAAGTNGTCCATCATCACACAGTCGCTTTGGGGCCCTCTGC 129
Db 72 CTTACCCACTGTGCTCAGCAGTGGTTCACAAATTCACCTCCATTCGCTGGGTTCATCTGC 131
QY 130 AGCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGGAGTTTACAGACATATGCTTCAGA 189
Db 132 AGCCCCAAATCTGGAGGAATATACAGCTTACAGGAGGTTTAAAGTTCTTTGTTCCAGA 191
QY 190 TCAAGTTCAGAACATGGCCTCATGATGCTTTTGGGGCCCTTTCATCAGGAATGGAGC 249
Db 192 TATATCAAACTCCAATAGCATGATTCCTTCAGTAGAATTTCTCTGGAACTGGAGA 251
QY 250 TGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGG 285
Db 252 CATTTTCCAGCAACATATTCAGCTTGAAAGTACAGG 287

RESULT 13
US-09-221-107-132
; Sequence 132, Application US/09221107
; Patent No. 6660838
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY OF LUNG CANCER
; FILE REFERENCE: 210121.455C2
; CURRENT APPLICATION NUMBER: US/09/221,107
; CURRENT FILING DATE: 1998-12-22
; NUMBER OF SEQ ID NOS: 161
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 132
; LENGTH: 590
; TYPE: DNA
; ORGANISM: Human
US-09-221-107-132

Query Match 32.6%; Score 94.2; DB 4; Length 590;
Best Local Similarity 58.7%; Pred. No. 3.3e-23;
Matches 162; Conservative 0; Mismatches 114; Indels 0; Gaps 0;

QY 10 AACTGATGGAATCTGAATTTGCTCTGACGGATGGGAGACACACATATAAGTGGGTG 69
Db 12 AGCTTATGGCTCTGTGATGATATAGTACCCAGCGGAGATGATAAGCTTCTTGGCAATTG 71
QY 70 CTTTAAACGAGGTCAAAACAAAGTNGTCCATCATCACACAGTCGCTTTGGGGCCCTCTGC 129
Db 72 CTTACCCACTGTGCTCAGCAGTGGTTCACAAATTCACCTCCATTCGCTGGGTTCATCTGC 131
QY 130 AGCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGGAGTTTACAGACATATGCTTCAGA 189
Db 132 AGCCCCAAATCTGGAGGAATATACAGCTTACAGGAGGTTTAAAGTTCTTTGTTCCAGA 191
QY 190 TCAAGTTTCAAGAACATGGCCTCATGATGCTTTTGGGGCCCTTTCATCAGGAATGGAGC 249
Db 192 TATATCAAACTCCAATAGCATGATTCCTTCAGTAGAATTTCTCTGGAACTGGAGA 251
QY 250 TGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGG 285
Db 252 CATTTTCCAGCAACATATTCAGCTTGAAAGTACAGG 287

RESULT 14
US-09-643-597-358
; Sequence 358, Application US/09643597
; Patent No. 6426072
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Henderson, Robert A.
; APPLICANT: McNeill, Patricia D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.455C11
; CURRENT APPLICATION NUMBER: US/09/643,597
; CURRENT FILING DATE: 2000-08-21
; NUMBER OF SEQ ID NOS: 369
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 358
; LENGTH: 2773
; TYPE: DNA
; ORGANISM: Homo sapiens
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Best Local Similarity 58.7%; Pred. No. 3.3e-23;
Matches 162; Conservative 0; Mismatches 114; Indels 0; Gaps 0;

QY 10 AACTGATGGAATCTGAATTTGCTCTGACGGATGGGAGACACACATATAAGTGGGTG 69
Db 12 AGCTTATGGCTCTGTGATGATATAGTACCCAGCGGAGATGATAAGCTTCTTGGCAATTG 71
QY 70 CTTTAAACGAGGTCAAAACAAAGTNGTCCATCATCACACAGTCGCTTTGGGGCCCTCTGC 129
Db 72 CTTACCCACTGTGCTCAGCAGTGGTTCACAAATTCACCTCCATTCGCTGGGTTCATCTGC 131
QY 130 AGCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGGAGTTTACAGACATATGCTTCAGA 189
Db 132 AGCCCCAAATCTGGAGGAATATACAGCTTACAGGAGGTTTAAAGTTCTTTGTTCCAGA 191
QY 190 TCAAGTTCAGAACATGGCCTCATGATGCTTTTGGGGCCCTTTCATCAGGAATGGAGC 249
Db 192 TATATCAAACTCCAATAGCATGATTCCTTCAGTAGAATTTCTCTGGAACTGGAGA 251
QY 250 TGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGG 285
Db 252 CATTTTCCAGCAACATATTCAGCTTGAAAGTACAGG 287

RESULT 12
US-09-606-421B-132
; Sequence 132, Application US/09606421B
; Patent No. 6531315
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.455C9
; CURRENT APPLICATION NUMBER: US/09/606,421B
; CURRENT FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 358
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 132
; LENGTH: 590
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-606-421B-132

Query Match 32.6%; Score 94.2; DB 4; Length 590;
Best Local Similarity 58.7%; Pred. No. 3.3e-23;
Matches 162; Conservative 0; Mismatches 114; Indels 0; Gaps 0;

QY 10 AACTGATGGAATCTGAATTTGCTCTGACGGATGGGAGACACACATATAAGTGGGTG 69
Db 12 AGCTTATGGCTCTGTGATGATATAGTACCCAGCGGAGATGATAAGCTTCTTGGCAATTG 71
QY 70 CTTTAAACGAGGTCAAAACAAAGTNGTCCATCATCACACAGTCGCTTTGGGGCCCTCTGC 129
Db 72 CTTACCCACTGTGCTCAGCAGTGGTTCACAAATTCACCTCCATTCGCTGGGTTCATCTGC 131
QY 130 AGCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGGAGTTTACAGACATATGCTTCAGA 189
Db 132 AGCCCCAAATCTGGAGGAATATACAGCTTACAGGAGGTTTAAAGTTCTTTGTTCCAGA 191
QY 190 TCAAGTTCAGAACATGGCCTCATGATGCTTTTGGGGCCCTTTCATCAGGAATGGAGC 249
Db 192 TATATCAAACTCCAATAGCATGATTCCTTCAGTAGAATTTCTCTGGAACTGGAGA 251
QY 250 TGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGG 285
Db 252 CATTTTCCAGCAACATATTCAGCTTGAAAGTACAGG 287

RESULT 13
US-09-221-107-132
; Sequence 132, Application US/09221107
; Patent No. 6660838
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY OF LUNG CANCER
; FILE REFERENCE: 210121.455C2
; CURRENT APPLICATION NUMBER: US/09/221,107
; CURRENT FILING DATE: 1998-12-22
; NUMBER OF SEQ ID NOS: 161
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 132
; LENGTH: 590
; TYPE: DNA
; ORGANISM: Human
US-09-221-107-132

Query Match 32.6%; Score 94.2; DB 4; Length 590;
Best Local Similarity 58.7%; Pred. No. 3.3e-23;
Matches 162; Conservative 0; Mismatches 114; Indels 0; Gaps 0;

QY 10 AACTGATGGAATCTGAATTTGCTCTGACGGATGGGAGACACACATATAAGTGGGTG 69
Db 12 AGCTTATGGCTCTGTGATGATATAGTACCCAGCGGAGATGATAAGCTTCTTGGCAATTG 71
QY 70 CTTTAAACGAGGTCAAAACAAAGTNGTCCATCATCACACAGTCGCTTTGGGGCCCTCTGC 129
Db 72 CTTACCCACTGTGCTCAGCAGTGGTTCACAAATTCACCTCCATTCGCTGGGTTCATCTGC 131
QY 130 AGCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGGAGTTTACAGACATATGCTTCAGA 189
Db 132 AGCCCCAAATCTGGAGGAATATACAGCTTACAGGAGGTTTAAAGTTCTTTGTTCCAGA 191
QY 190 TCAAGTTTCAAGAACATGGCCTCATGATGCTTTTGGGGCCCTTTCATCAGGAATGGAGC 249
Db 192 TATATCAAACTCCAATAGCATGATTCCTTCAGTAGAATTTCTCTGGAACTGGAGA 251
QY 250 TGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGG 285
Db 252 CATTTTCCAGCAACATATTCAGCTTGAAAGTACAGG 287

RESULT 14
US-09-643-597-358
; Sequence 358, Application US/09643597
; Patent No. 6426072
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Henderson, Robert A.
; APPLICANT: McNeill, Patricia D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.455C11
; CURRENT APPLICATION NUMBER: US/09/643,597
; CURRENT FILING DATE: 2000-08-21
; NUMBER OF SEQ ID NOS: 369
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 358
; LENGTH: 2773
; TYPE: DNA
; ORGANISM: Homo sapiens
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US-09-643-597-358

Query Match 32.6%; Score 94.2; DB 4; Length 2773;

Best Local Similarity 58.7%; Pred. No. 7.5e-23;

Matches 162; Conservative 0; Mismatches 114; Indels 0; Gaps 0;

QY 10 AACTGATGATCTGAATTTGCTGCTGACGGATGGGAGAGACACACTATAAGTGGGTG 69

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QY 70 CTTTAAAGAGGTCACAAAGTNGTCCATCATCCACAGTCGCTTTGGGGCCCTCTGC 129

DB 1221 CTTACCCACTGTGCTCAGCAGTGGTTCAACAATTCCTCAATGCCCCTGGTTTCATCTGC 1280

QY 130 AGCTCAAGAACTAGAGGAGCTGTCCAAAATGACGAGGAGTTTACAGACATATGCTTTTACA 189

DB 1281 AGCCCCAAATCTGGAGGAATTATACGTCCTTACAGGAGGTTTAAAGTCTTTGTTCCAGA 1340

QY 190 TCAAGTTTCAGAACATGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGC 249

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DB 1401 CATTTCCAGCAACATATTTCAGCTTGAAGTACAGG 1436

RESULT 15

US-09-643-597-168

; Sequence 168, Application US/09643597

; Patent No. 6426072

; GENERAL INFORMATION:

; APPLICANT: Wang, Tongtong

; APPLICANT: Fan, Liqun

; APPLICANT: Kalos, Michael D.

; APPLICANT: Bangur, Chaitanya S.

; APPLICANT: Hosken, Nancy

; APPLICANT: Fanger, Gary R.

; APPLICANT: Li, Samuel X.

; APPLICANT: Wang, Aijun

; APPLICANT: Skeiky, Yasir A.W.

; APPLICANT: Henderson, Robert A.

; APPLICANT: McNeill, Patricia D.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY

; FILE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER

; FILE REFERENCE: 210121.455C11

; CURRENT APPLICATION NUMBER: US/09/643,597

; CURRENT FILING DATE: 2000-08-21

; NUMBER OF SEQ ID NOS: 369

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 168

; LENGTH: 2784

; TYPE: DNA

; ORGANISM: Homo sapien

US-09-643-597-168

Query Match

32.6%; Score 94.2; DB 4; Length 2784;

Best Local Similarity 58.7%; Pred. No. 7.5e-23;

Matches 162; Conservative 0; Mismatches 114; Indels 0; Gaps 0;

QY 10 AACTGATGATCTGAATTTGCTGCTGACGGATGGGAGAGACACACTATAAGTGGGTG 69

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QY 70 CTTTAAAGAGGTCACAAAGTNGTCCATCATCCACAGTCGCTTTGGGGCCCTCTGC 129

DB 1363 CTTACCCACTGTGCTCAGCAGTGGTTCAACAATTCCTCAATGCCCCTGGTTTCATCTGC 1422

QY 130 AGCTCAAGAACTAGAGGAGCTGTCCAAAATGACGAGGAGTTTACAGACATATGCTTTACA 189

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QY 190 TCAAGTTTCAGAACATGGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGC 249

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QY 250 TGTCTCTCAGCGCTCCATCCAGCTTCAGAGTAAGGG 285

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Ygapop 10.0, Ygapext 0.5  
Fgapop 6.0, Fgapext 7.0  
Delop 6.0, Delext 7.0

Searched: 1133595 seqs, 276475211 residues

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Pred. No. is the number of results predicted by chance to have a  
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and is derived by analysis of the total score distribution.

SUMMARIES

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2	472	88.9	869	14	US-10-106-698-6388	Sequence 6388, Ap
3	472	88.9	914	9	US-09-823-356-8	Sequence 8, Appli
4	472	88.9	914	9	US-09-922-217-1066	Sequence 1066, Ap
5	472	88.9	914	9	US-09-833-263-1066	Sequence 1066, Ap
6	472	88.9	914	9	US-09-981-353-192	Sequence 192, App
7	472	88.9	914	11	US-09-833-245-2054	Sequence 2054, Ap
8	472	88.9	914	13	US-10-025-180-1066	Sequence 1066, Ap
9	472	88.9	914	14	US-10-055-412B-28	Sequence 28, Appli
10	472	88.9	914	14	US-10-270-595-6	Sequence 6, Appli
11	472	88.9	914	14	US-10-235-994-26	Sequence 26, Appli
12	472	88.9	914	14	US-10-060-255-42	Sequence 42, Appli
13	472	88.9	914	15	US-10-369-214-133	Sequence 133, App
14	472	88.9	925	14	US-09-764-868-635	Sequence 635, App
15	472	88.9	925	14	US-10-106-698-6248	Sequence 6248, Ap
16	472	77.6	913	14	US-10-270-595-2	Sequence 2, Appli
17	472	77.6	913	15	US-10-369-214-132	Sequence 132, App
18	315	59.3	917	9	US-09-981-353-54	Sequence 54, Appli
19	315	59.3	917	13	US-10-025-167-41	Sequence 41, Appli
20	315	59.3	917	14	US-10-235-994-16	Sequence 16, Appli
21	315	59.3	917	14	US-10-345-680-32	Sequence 32, Appli
22	315	59.3	917	15	US-10-369-214-134	Sequence 134, App
23	315	59.3	917	15	US-10-087-080-34	Sequence 34, Appli
24	315	59.3	919	9	US-09-989-722-379	Sequence 379, App
25	315	59.3	919	9	US-09-989-723-379	Sequence 379, App
26	315	59.3	919	9	US-09-989-729-379	Sequence 379, App
27	315	59.3	919	9	US-09-989-727-379	Sequence 379, App
28	315	59.3	919	9	US-09-989-731-379	Sequence 379, App
29	315	59.3	919	9	US-09-989-732-379	Sequence 379, App
30	315	59.3	919	9	US-09-991-073-379	Sequence 379, App
31	315	59.3	919	9	US-09-990-442-379	Sequence 379, App
32	315	59.3	919	9	US-09-991-163-379	Sequence 379, App
33	315	59.3	919	9	US-09-993-604-379	Sequence 379, App
34	315	59.3	919	9	US-09-990-456-379	Sequence 379, App
35	315	59.3	919	9	US-09-989-721-379	Sequence 379, App
36	315	59.3	919	9	US-09-992-598-379	Sequence 379, App
37	315	59.3	919	9	US-09-989-293A-379	Sequence 379, App
38	315	59.3	919	9	US-09-989-735-379	Sequence 379, App
39	315	59.3	919	9	US-09-990-444-379	Sequence 379, App
40	315	59.3	919	9	US-09-991-181-379	Sequence 379, App
41	315	59.3	919	9	US-09-989-730-379	Sequence 379, App
42	315	59.3	919	9	US-09-990-436-379	Sequence 379, App
43	315	59.3	919	9	US-09-993-687-379	Sequence 379, App
44	315	59.3	919	10	US-09-989-734-379	Sequence 379, App
45	315	59.3	919	10	US-09-997-653-379	Sequence 379, App

ALIGNMENTS

RESULT 1

US-10-106-698-4628  
; Sequence 4628, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 4628  
; LENGTH: 552  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-106-698-4628

Alignment Scores:		
Pred. No.:	1.25e-49	552
Score:	472.00	95
Percent Similarity:	98.96%	Matches: 0
Best Local Similarity:	98.96%	Mismatches: 1
Query Match:	88.89%	Indels: 0
DB:	14	Gaps: 0

US-09-049-696-7 (1-289) x US-10-106-698-4628 (1-552)

QY	61	AAATATCCAACTGATGGATCTGAAATTTGCTGCTGACGAGTGGGGAAGACAACACTATA
Db	56	LysTyrProThrAspGlySerGluLeuValLeuLeuThrAspGlyGluAspAsnThrIle
QY	121	AGTGGGTGCTTTAAACGAGGTCAACAAAGTNGTGCATCATCCACACAGTCGGCTTTGGGG
Db	76	SerGlyCysPheAsnGluValIysGlnSerGlyAlaIleIleHisThrValAlaLeuGly
QY	181	CCCTCTGCAGCTCAGAACTAGAGAGCTGTCCAAATGACAGAGGTTTTACAGACATAT
Db	96	ProSerAlaAlaGlnGluLeuGluLeuSerIysMetThrGlyGlyLeuGlnThrTyr
QY	241	GCTTCAGATCAAGTTTCAGAAACAATGGCCTCATTCATGCTTTTGGGGCCCTTCATCAGGA
Db	116	AlaSerAspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGly
QY	289	AATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAAGGATTA
Db	132	AsnGlyAlaValAspSerGlnAspSerIleGlnLeuGluSerIysGlyLeu

## RESULT 2

```

US-10-106-698-6388
; Sequence 6388, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
; FILE REFERENCE: PA005P1
; CURRENT APPLICATION NUMBER: US/10/106,698
; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 6388
; LENGTH: 869
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (14)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-10-106-698-6398

```

Alignment Scores:		
Pred. No.:	1.39E-49	
Score:	472.00	
Percent Similarity:	98.96%	Length: 889
Best Local Similarity:	98.96%	Matches: 95
Query Match:	88.89%	Conservative: 0
DB:	14	Mismatches: 1
		Indels: 0
		Gaps: 0

US-09-049-696-7 (1-289) x US-10-106-698-6388 (1-869)

61 QY 2 AAATATCCAACTGATGGATCTGAAATTTGTCTGCTGACGGATGGGGAAGACAACACTATA  
 354 Db LysTyzProThrAspGlySerGluLeuValleuleuThrAspGlyGluAspAsenThrIle  
 62 QY 62 AGTGGGTGCTTTAAAGAGAGTCAACAAAGTNGTGCATCATCCACACAGTCGCTTTGGGG 121

374	SerGlyCysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGly	393
122	CCCTCTCGAGCTCAAGAACTAGAGAGAGCTGTCCAAAATGACAGAGGAGTTTACAGACATAT	181
394	ProSerAlaAlaGlnGluLeuGlnGluLeuSerLysMetThrGlyGlyLeuGlnThrTyr	413
182	GCCTTCAGATCAAGTTTCAGAAACAATGGCGCTCATTTGCTTTTGGGGCCCTTTTCATCAGGA	241
414	AlaSerAspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGly	433
242	AATGGAGCTGTCTCTCAGCGCTCATCCAGCTTGAGACTAGAGGATTA	289
434	AsnGlyAlaValSerGlnAsnSerIleGlnLeuGluSerLysGlyLeu	449

### RESULT 3

```

US-09-823-356-8
; Sequence 8, Application US/09823356
; Patent No. US20010025098A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Bandman, Olga
; APPLICANT: Lal, Preeti
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Yue, Henry
; APPLICANT: Corley, Neil C.
; APPLICANT: Guegler, Karl J.
; APPLICANT: Kaser, Matthew R.
; APPLICANT: Baughn, Mariah R.
; APPLICANT: Shah, Purvi
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS
; FILE REFERENCE: PF-0489-1 CON
; CURRENT APPLICATION NUMBER: US/09/823,356
; CURRENT FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/039,307
; PRIOR FILING DATE: 1998 March 13
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PERL Program
; SEQ ID NO 8
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20010025098A1 17377775
US-09-823-356-8

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Alignment Scores:	
Pred. No.:	1,418-49
Score:	472.00
Percent Similarity:	98.96%
Best Local Similarity:	98.96%
Query Match:	88.89%
DB:	9
Length:	914
Matches:	95
Conservative:	0
Mismatches:	1
Indels:	0
Gaps:	0

US-09-049-696-7 (1-289) x US-09-823-356-8 (1-914)

Qy	2	AAATATCCAACTGATGATCGAAATTTGCTGCTGACGCGATGGGAGAGACAACACTATA	61
Db	399	LysTyrProThrAspGlySerGluIleValleuLeuThrAspGlyGluAspAsnThrIle	418
Qy	62	AGTGGGTGCTTTACGAGGTCAAACAAGTNGTCCATCCACACAGTCGCTTTGGGG	121
Db	419	SerGlyCysPheAsnGluValGlnSerGlyAlaIleIleHisThrValAlaLeuGly	438
Qy	122	CCCTCTCGAGCTCAAGAACTAGAGGAGCTGTCCAAAATGCACAGAGGTTTACAGACATAT	181
Db	439	ProSerAlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyr	458
Qy	182	GCTTCAGATCAAGTTCAGAAATGGCGCTCATTTGCTTTTGGGGCCCTTTTCATCAGA	241
Db	459	AlaSerAspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGly	478

QY 242 RATGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGATTA 289  
Db 479 AenGlyAlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeu 494

## RESULT 4

US-09-922-217-1066  
; Sequence 1066, Application US/09922217  
; Patent No. US20020076414A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Smith, Carole Lynn  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; FILE REFERENCE: 210121.471C13  
; CURRENT APPLICATION NUMBER: US/09/922,217  
; CURRENT FILING DATE: 2001-08-03  
; NUMBER OF SEQ ID NOS: 1124  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1066  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-922-217-1066

Alignment Scores:  
Pred. No.: 1,41e-49 Length: 914  
Score: 472.00 Matches: 95  
Percent Similarity: 98.96% Conservative: 0  
Best Local Similarity: 98.96% Mismatches: 1  
Query Match: 88.89% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-7 (1-289) x US-09-922-217-1066 (1-914)

QY 2 AAATATCCAATGATGGATCTGAAATTGTGCTGCTGAGCGATGGGAAACAACTATA 61  
Db 399 LysTyrProThrAspGlySerGluLeuValLeuLeuThrAspGlyGluAspAsnThrIle 418  
QY 62 AGTGGGTGCTTTAAGCAGGTCAAAAGTNGTCCATCATCCACACAGTCGCTTTGGGG 121  
Db 419 SerGlyCysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGly 438  
QY 122 CCTCTGAGCTCAGACTAGAGGCTGTCCTCAAAATGACAGAGGTTTACAGACATAT 181  
Db 439 ProSerAlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyr 458  
QY 182 GCTTCAGATCAAGTTCAAGAAATGCGCTCATTTGGGCGCCCTTTTCATCAGGA 241  
Db 459 AlaSerAspGlnValGlnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGly 478  
QY 242 AATGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGATTA 289  
Db 479 AenGlyAlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeu 494

## RESULT 5

US-09-833-263-1066  
; Sequence 1066, Application US/09833263  
; Patent No. US20020110547A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Stolk, John A.  
; APPLICANT: Meagher, Madeleine J.

; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND  
; FILE REFERENCE: 210121.471C12  
; CURRENT APPLICATION NUMBER: US/09/833,263  
; CURRENT FILING DATE: 2001-04-10  
; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 1066  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-833-263-1066

Alignment Scores:  
Pred. No.: 1,41e-49 Length: 914  
Score: 472.00 Matches: 95  
Percent Similarity: 98.96% Conservative: 0  
Best Local Similarity: 98.96% Mismatches: 1  
Query Match: 88.89% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-7 (1-289) x US-09-833-263-1066 (1-914)

QY 2 AAATATCCAATGATGGATCTGAAATTGTGCTGCTGAGCGATGGGAAACAACTATA 61  
Db 399 LysTyrProThrAspGlySerGluLeuValLeuLeuThrAspGlyGluAspAsnThrIle 418  
QY 62 AGTGGGTGCTTTAAGCAGGTCAAAAGTNGTCCATCATCCACACAGTCGCTTTGGGG 121  
Db 419 SerGlyCysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGly 438  
QY 122 CCTCTGAGCTCAGACTAGAGGCTGTCCTCAAAATGACAGAGGTTTACAGACATAT 181  
Db 439 ProSerAlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyr 458  
QY 182 GCTTCAGATCAAGTTCAAGAAATGCGCTCATTTGGGCGCCCTTTTCATCAGGA 241  
Db 459 AlaSerAspGlnValGlnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGly 478  
QY 242 AATGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGATTA 289  
Db 479 AenGlyAlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeu 494

## RESULT 6

US-09-981-353-192  
; Sequence 192, Application US/09981353  
; Patent No. US20020160382A1  
; GENERAL INFORMATION:  
; APPLICANT: Lasek, Amy W.  
; APPLICANT: Jones, David A.  
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
; FILE REFERENCE: PA-0038 US  
; CURRENT APPLICATION NUMBER: US/09/981,353  
; CURRENT FILING DATE: 2001-10-11  
; NUMBER OF SEQ ID NOS: 194  
; SOFTWARE: PERL Program  
; SEQ ID NO 192  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CD1  
US-09-981-353-192

Alignment Scores:  
Pred. No.: 1,41e-49 Length: 914  
Score: 472.00 Matches: 95  
Percent Similarity: 98.96% Conservative: 0  
Best Local Similarity: 98.96% Mismatches: 1  
Query Match: 88.89% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-7 (1-289) x US-09-981-353-192 (1-914)

Qy	2	AAATATCCAACGTGATGCTGAATTTGCTGCTGACGGATGGGAAGACAACTATA	61
Db	399	LysTyrProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIle	418
Qy	62	AGTGGTGCTTTAACGAGGTCMAAAGAGTNGTGCATCATCCACACAGTCGCTTTGGG	121
Db	419	SerGlyCysPheAsnGluVallysglnSerGlyAlaIleHisThrValAlaLeuGly	438
Qy	122	CCCTCTGCAGCTCAAGAACTAGAGGAGCTGCCAAAATGCACAGGAGGTTTACAGACATAT	181
Db	439	ProSerAlaAlaGlnGluLeuGluLeuSerLysMetThrGlyLeuGlnThrTyr	458
Qy	182	GCTTCAGATCAAGTTTCAGACAAATGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGA	241
Db	459	AlaSerAspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGly	478
Qy	242	AATGGAGCTGCTCTTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA	289
Db	479	AsnGlyAlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeu	494

RESULT 7

US-09-833-245-2054

; Sequence 2054, Application US/09833245

; Publication No. US20040010134A1

; GENERAL INFORMATION:

; APPLICANT: Human Genome Sciences, Inc.

; TITLE OF INVENTION: Albumin Fusion Proteins

; FILE REFERENCE: PF546PCT

; CURRENT APPLICATION NUMBER: US/09/833,245

; CURRENT FILING DATE: 2001-04-12

; PRIOR APPLICATION NUMBER: 60/229, 358

; PRIOR FILING DATE: 2000-04-12

; PRIOR APPLICATION NUMBER: 60/256, 931

; PRIOR FILING DATE: 2000-12-21

; PRIOR APPLICATION NUMBER: 60/199, 384

; PRIOR FILING DATE: 2000-04-25

; NUMBER OF SEQ ID NOS: 2267

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 2054

; LENGTH: 914

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-833-245-2054

Alignment Scores:			
Pred. NO.:	1,41e-49	Length:	914
Score:	472.00	Matches:	95
Percent Similarity:	98.96%	Conservative:	0
Best Local Similarity:	98.96%	Mismatches:	1
Query Match:	88.89%	Indels:	0
DB:	11	Gaps:	0

US-09-049-696-7 (1-289) x US-09-833-245-2054 (1-914)

Qy	2	AAATATCCAACGTGATGCTGAATTTGCTGCTGACGGATGGGAAGACAACTATA	61
Db	399	LysTyrProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIle	418
Qy	62	AGTGGTGCTTTAACGAGGTCMAAAGAGTNGTGCATCATCCACACAGTCGCTTTGGG	121
Db	419	SerGlyCysPheAsnGluVallysglnSerGlyAlaIleHisThrValAlaLeuGly	438
Qy	122	CCCTCTGCAGCTCAAGAACTAGAGGAGCTGCCAAAATGCACAGGAGGTTTACAGACATAT	181
Db	439	ProSerAlaAlaGlnGluLeuGluLeuSerLysMetThrGlyLeuGlnThrTyr	458
Qy	182	GCTTCAGATCAAGTTTCAGACAAATGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGA	241
Db	459	AlaSerAspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGly	478
Qy	242	AATGGAGCTGCTCTTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA	289

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; PRIOR FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 28  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-055-412B-28

Alignment Scores:  
Pred. No.: 1.41e-49 Length: 914  
Score: 472.00 Matches: 95  
Percent Similarity: 98.96% Conservative: 0  
Best Local Similarity: 98.96% Mismatches: 1  
Query Match: 88.89% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-7 (1-289) x US-10-055-412B-28 (1-914)

QY 2 AAATATCCAACTGATGGATCTGAAATTGCTGCTGACGGATGGGGAACAACTATA 61  
Db 399 LysTyrProThrAspGlySerGluileValLeuLeuThrAspGlyGluAspAsnThrIle 418  
QY 62 AGTGGGTCTTTAAAGAGGTCAAAAGTNGTGCATCATCCACAGTCCCTTTGGGG 121  
Db 419 SerGlyCyysPheAsnGluValLysGlnSerGlyAlaIleHleThrValAlaLeuGly 438  
QY 122 CCTCTGAGCTCAAGAACTAGACAGAGTGTCCAAAATGACAGAGGTTTACAGACATAT 181  
Db 439 ProSerAlaAlaGlnGluLeuGluLeuSerLysMetThrGlyLeuGlnThrTyr 458  
QY 182 GCTTCAGATCAAGTTTCAGAACAAATGCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGA 241  
Db 459 AlaSerAspGlnValGlnAsnAsnGlyLeuileAspAlaPheGlyAlaLeuSerSerGly 478  
QY 242 AATGAGCTGTCTTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 289  
Db 479 AsnGlyAlaValSerGlnArgSerileGlnLeuGluSerLysGlyLeu 494

RESULT 10  
US-10-270-595-6  
; Sequence 6, Application US/10270595  
; Publication No. US20030078409A1  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; PRIOR FILING DATE: 2002-10-16  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472

; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-270-595-6

Alignment Scores:  
Pred. No.: 1.41e-49 Length: 914  
Score: 472.00 Matches: 95  
Percent Similarity: 98.96% Conservative: 0  
Best Local Similarity: 98.96% Mismatches: 1  
Query Match: 88.89% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-7 (1-289) x US-10-270-595-6 (1-914)

QY 2 AAATATCCAACTGATGGATCTGAAATTGCTGCTGACGGATGGGGAACAACTATA 61  
Db 399 LysTyrProThrAspGlySerGluileValLeuLeuThrAspGlyGluAspAsnThrIle 418  
QY 62 AGTGGGTCTTTAAAGAGGTCAAAAGTNGTGCATCATCCACAGTCCCTTTGGGG 121  
Db 419 SerGlyCyysPheAsnGluValLysGlnSerGlyAlaIleHleThrValAlaLeuGly 438  
QY 122 CCTCTGAGCTCAAGAACTAGACAGAGTGTCCAAAATGACAGAGGTTTACAGACATAT 181  
Db 439 ProSerAlaAlaGlnGluLeuGluLeuSerLysMetThrGlyLeuGlnThrTyr 458  
QY 182 GCTTCAGATCAAGTTTCAGAACAAATGCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGA 241  
Db 459 AlaSerAspGlnValGlnAsnAsnGlyLeuileAspAlaPheGlyAlaLeuSerSerGly 478  
QY 242 AATGAGCTGTCTTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 289  
Db 479 AsnGlyAlaValSerGlnArgSerileGlnLeuGluSerLysGlyLeu 494

RESULT 11  
US-10-235-994-26  
; Sequence 26, Application US/10235994  
; Publication No. US20030101002A1  
; GENERAL INFORMATION:  
; APPLICANT: Bartha, Gabor  
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS  
; FILE REFERENCE: ICYTP012  
; CURRENT APPLICATION NUMBER: US/10/235,994  
; CURRENT FILING DATE: 2002-09-04  
; PRIOR APPLICATION NUMBER: US/10/003,608  
; PRIOR FILING DATE: 2001-11-01  
; PRIOR APPLICATION NUMBER: 60/245,081  
; PRIOR FILING DATE: 2000-11-01  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 26  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Human  
US-10-235-994-26

Alignment Scores:  
Pred. No.: 1.41e-49 Length: 914  
Score: 472.00 Matches: 95  
Percent Similarity: 98.96% Conservative: 0  
Best Local Similarity: 98.96% Mismatches: 1  
Query Match: 88.89% Indels: 0

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DB: 14 Gaps: 0
US-09-049-696-7 (1-289) x US-10-235-994-26 (1-914)
QY 2 AAATATCAACTGATGATCTGAATTTGCTGTCGCGGATGGGGAAGACAACTATA 61
DB 399 LysTyrProThrAspGlySerGluLeuValLeuLeuThrAspGlyGluAsnThrIle 418
QY 62 AGTGGTCTTTAAACGAGGTCAAAAGAGTNGTGCATCCACACAGTCGCTTTGGG 121
DB 419 SerGlyCysPheAsnGluValysGlnSerGlyAlaIleHleHisThrValAlaLeuGly 438
QY 122 CCTCTGAGCTCAAGAACTAGAGAGCTGTCCAAATGACAGAGGTTTACAGACATAT 181
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QY 182 GCTTCAGATCAAGTTTCAGAACTAGAGGCTCATTCATCCACACAGTCGCTTTGGG 241
DB 459 AlaSerAspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSergly 478
QY 242 AATGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 289
DB 479 AsnGlyAlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeu 494
RESULT 12
US-10-060-255-42
; Sequence 42, Application US/10060255
; Publication No. US20030113840A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 25 Human secreted proteins
; CURRENT APPLICATION NUMBER: US/10/060,255
; CURRENT FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: 09/781,417
; PRIOR FILING DATE: 2001-02-13
; PRIOR APPLICATION NUMBER: PCT/US00/22325
; PRIOR FILING DATE: 2000-08-16
; PRIOR APPLICATION NUMBER: 60/149,182
; PRIOR FILING DATE: 1999-08-17
; NUMBER OF SEQ ID NOS: 86
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 42
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-060-255-42
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Query Match: 88.89% Indels: 0
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DB 419 SerGlyCysPheAsnGluValysGlnSerGlyAlaIleHleHisThrValAlaLeuGly 438
QY 122 CCTCTGAGCTCAAGAACTAGAGGCTGTCCAAATGACAGAGGTTTACAGACATAT 181
DB 439 ProSerAlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyr 458
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DB 479 AsnGlyAlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeu 494
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US-10-369-214-133
; Sequence 133, Application US/10369214
; Publication No. US20030232037A1
; GENERAL INFORMATION:
; APPLICANT: Groot, Pieter C.
; APPLICANT: Berghenhegouwen van, Bram J.
; APPLICANT: Oosterhout van, Antoon J.M.
; TITLE OF INVENTION: Genes involved in immune related responses observed
; TITLE OF INVENTION: with asthma
; FILE REFERENCE: P53837US00
; CURRENT APPLICATION NUMBER: US/10/369,214
; CURRENT FILING DATE: 2003-02-15
; PRIOR APPLICATION NUMBER: EP 00202867.8
; PRIOR FILING DATE: 2000-08-16
; PRIOR APPLICATION NUMBER: PCT/NL01/00610
; PRIOR FILING DATE: 2001-08-16
; NUMBER OF SEQ ID NOS: 139
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 133
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
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; LOCATION: (1)..(914)
; OTHER INFORMATION: /note="Human CLCA1"
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QY 62 AGTGGTCTTTAAACGAGGTCAAAAGAGTNGTGCATCCACACAGTCGCTTTGGG 121
DB 419 SerGlyCysPheAsnGluValysGlnSerGlyAlaIleHleHisThrValAlaLeuGly 438
QY 122 CCTCTGAGCTCAAGAACTAGAGGCTGTCCAAATGACAGAGGTTTACAGACATAT 181
DB 439 ProSerAlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyr 458
QY 182 GCTTCAGATCAAGTTTCAGAACTAGAGGCTCATTCATCCACACAGTCGCTTTGGG 241
DB 459 AlaSerAspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSergly 478
QY 242 AATGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 289
DB 479 AsnGlyAlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeu 494
RESULT 14
US-09-764-868-635
; Sequence 635, Application US/09764868
; Patent No. US20020168711A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PTZ32
; CURRENT APPLICATION NUMBER: US/09/764,868
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; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 1510  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 635  
; LENGTH: 925  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-764-868-635

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Score: 472.00 Matches: 95  
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QY 182 GCTTCAGATCAAGTTCAGAACTGCTTCATTCATTCATTCATTCATTCATTCATTCAT 241
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## RESULT 15

US-10-106-698-6248  
; Sequence 6248, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide  
; FILE REFERENCE: PA005PI  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 6248  
; LENGTH: 925  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-106-698-6248

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Pred. No.: 1,428-49 Length: 925  
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Query Match: 88.89% Indels: 0  
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US-09-049-696-7 (1-289) x US-10-106-698-6248 (1-925)

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QY 62 AGTGGGTCTTTAAGAGGTCAAAAGTNGTCCATCATCCACACAGTCCGCTTTGGGG 121
Db 430 SerGlyCysPheAsnGluValLysGlnSerGlyAlaileHisThrValAlaLeuGly 449

QY 122 CCTCTGCAGCTCAAGACTAGAGGAGCTGTCCAAAATGACAGGAGGTTTACAGACATAT 181
Db 450 ProSerAlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyr 469

QY 182 GCTTCAGATCAAGTTCAGAACTGCTTCATTCATTCATTCATTCATTCATTCATTCAT 241
Db 470 AlaSerAspGlnValGlnAsnGlyLeuileAspAlaPheGlyAlaLeuSerSerGly 489

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Job time : 44.6075 secs

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GenCore version 5.1.6  
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Delop 6.0, Delext 7.0

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Post-processing: Minimum Match 0%  
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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

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3	412	77.6	913	4	US-09-623-624-2
4	315	59.3	917	4	US-09-049-698-41
5	285	53.7	903	4	US-09-193-562D-46
6	284	53.5	903	4	US-09-623-624-18
7	281	52.9	902	4	US-09-193-562D-34
8	276	52.0	795	4	US-09-193-562D-11
9	276	52.0	821	4	US-09-193-562D-12
10	276	52.0	905	4	US-09-193-562D-2
11	262	49.3	1000	4	US-09-193-562D-30
12	218	41.1	592	4	US-09-643-597-169

13	218	41.1	592	4	US-09-480-884A-169	Sequence 169, App
14	218	41.1	592	4	US-09-542-615A-169	Sequence 169, App
15	218	41.1	592	4	US-09-606-421B-169	Sequence 169, App
16	218	41.1	791	4	US-09-643-597-170	Sequence 170, App
17	218	41.1	791	4	US-09-480-884A-170	Sequence 170, App
18	218	41.1	791	4	US-09-542-615A-170	Sequence 170, App
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20	218	41.1	920	4	US-09-643-597-357	Sequence 357, App
21	218	41.1	942	4	US-09-919-172-87	Sequence 87, Appl
22	218	41.1	943	4	US-09-193-562D-32	Sequence 32, Appl
23	218	41.1	943	4	US-09-643-597-161	Sequence 161, App
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28	218	41.1	943	4	US-09-221-107-161	Sequence 161, App
29	117	22.0	25	4	US-09-623-624-15	Sequence 15, Appl
30	70.5	13.3	777	2	US-08-477-396A-4	Sequence 4, Appl
31	68.5	12.9	212	2	US-08-477-396A-2	Sequence 2, Appl
32	66.5	12.5	189	3	US-09-123-492A-1	Sequence 1, Appl
33	66.5	12.5	779	1	US-08-426-627-4	Sequence 4, Appl
34	66.5	12.5	779	1	US-08-426-627-24	Sequence 24, Appl
35	66.5	12.5	836	1	US-08-426-627-6	Sequence 6, Appl
36	66.5	12.5	837	1	US-08-426-627-23	Sequence 23, Appl
37	66	12.4	709	4	US-09-328-352-5172	Sequence 5172, Ap
38	65	12.2	436	4	US-09-328-352-4416	Sequence 4416, Ap
39	65	12.2	1437	3	US-09-061-400-2	Sequence 2, Appl
40	65	12.2	1453	2	US-09-001-273-2	Sequence 2, Appl
41	65	12.2	1453	3	US-08-843-459A-2	Sequence 2, Appl
42	64.5	12.1	151	2	US-08-387-942C-46	Sequence 46, Appl
43	64.5	12.1	546	4	US-09-345-236B-98	Sequence 98, Appl
44	64.5	12.1	546	4	US-09-345-236B-121	Sequence 121, App
45	64.5	12.1	810	4	US-09-252-991A-17494	Sequence 17494, A

ALIGNMENTS

RESULT 1  
US-09-193-562D-28  
; Sequence 28, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedict U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 28  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-193-562D-28

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Query Match: 88.89% Indels: 0  
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QY 242 AATGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 289  
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## RESULT 2

US-09-623-624-6  
; Sequence 6, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patent In Ver. 2.0  
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; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-623-624-6

Alignment Scores:  
Pred. No.: 2,696-52 Length: 914  
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Percent Similarity: 98.96% Conservative: 0  
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US-09-049-696-7 (1-289) x US-09-623-624-6 (1-914)

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Db 419 SerGlyCysPheAsnGluValLysGlnSerGlyAlaIleHisThrValAlaLeuGly 438  
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Db 459 AlaSerAspGlnValGlnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerGly 478  
QY 242 AATGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 289  
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US-09-623-624-2  
; Sequence 2, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
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; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
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; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
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; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 2  
; LENGTH: 913  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-09-623-624-2

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Qy	62	ACTGGTGCTTTAACGAGGCTCAAAACAAGTNGTGCCATCATCCACACAGTCGCTTTGGGG	121
Db	420	SerSerCyspHeAspLeuValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGly	439
Qy	122	CCCTCTCGAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGGAGGTTTACACACATAT	181
Db	440	ProIalaIaLysGluLeuGlnLeuSerLysMetThrGlyLeuGlnThrTyr	459
Qy	182	GCTTCAGATCAAGTTCAGAAACAATGGCCTCAATCATGCTTTTGGGGCCCTTTCATCAGGA	241
Db	460	SerSerAspGlnValGlnAsnAsnGlyLeuValAspAlaPheAlaLeuSerSerGly	479
Qy	242	AATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTCAGAGTAAGGATTA	289
Db	480	AsnAlaIaIleAlaGlnHisSerIleGlnLeuGluSerArgGlyVal	495
RESULT 4			
US-09-049-698-41			
; Sequence 41, Application US/09049698			
; Patent No. 6368792			
; GENERAL INFORMATION:			
; APPLICANT: BILLING-MEDEL, PATRICIA A.			
; APPLICANT: COHEN, MAURICE			
; APPLICANT: COLPITTS, TRACEY L.			
; APPLICANT: FRIEDMAN, PAULA N.			
; APPLICANT: HAYDEN, MARK			
; APPLICANT: KLASS, MICHAEL R.			
; APPLICANT: ROBERTS-RAPP, LISA			
; APPLICANT: RUSSELL, JOHN C.			
; APPLICANT: STROUPE, STEPHEN D.			
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE			
; USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL			
; TITLE OF INVENTION: TRACT			
; NUMBER OF SEQUENCES: 51			
; CORRESPONDENCE ADDRESS:			
; ADDRESSEE: Abbott Laboratories			
; STREET: 100 Abbott Park Road			
; CITY: Abbott Park			
; STATE: IL			
; COUNTRY: USA			
; ZIP: 60064-3500			
; COMPUTER READABLE FORM:			
; MEDIUM TYPE: Diskette			
; COMPUTER: IBM Compatible			
; OPERATING SYSTEM: DOS			
; SOFTWARE: FastSEQ for Windows Version 2.0			
; CURRENT APPLICATION DATA: US/09/049,698			
; FILING DATE:			
; CLASSIFICATION:			
; PRIOR APPLICATION DATA:			
; APPLICATION NUMBER: 08/828,856			
; FILING DATE: 31-MAR-1997			
; ATTORNEY/AGENT INFORMATION:			
; NAME: Becker, Cheryl L.			
; REGISTRATION NUMBER: 35,441			
; REFERENCE/DOCKET NUMBER: 6068.US.P1			
; TELECOMMUNICATION INFORMATION:			
; TELEPHONE: 847/935-1729			
; TELEFAX: 847/938-2623			
; TELEX:			
; INFORMATION FOR SEQ ID NO: 41:			
; SEQUENCE CHARACTERISTICS:			
; LENGTH: 917 amino acids			
; TYPE: amino acid			
; STRANDEDNESS: single			
; TOPOLOGY: linear			
; MOLECULE TYPE: No. 6368792e			
US-09-049-698-41			
Alignment Scores:			
Pred. No.:			
Score:			
5.06e-32			
315.00			
Length:			
Matches:			
917			
61			

```

Percent Similarity: 82.61% Conservative: 15
Best Local Similarity: 66.30% Mismatches: 16
Query Match: 59.32% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-7 (1-289) x US-09-049-698-41 (1-917)

Qy 14 GATGGATCTGAATTTGCTGTGACGGATGGGGAAGACAACAACACTATAAGTGGGTGCTTT 73
Db 404 AspGlySerGluValLeuLeuThrAspGlyGluAspAsnThrAlaSerSerCysIle 423
Qy 74 AACGAGGTCAAAACAAGTNGTCATCACCACACAGTCGCTTTGGGGCCCTCTGCAGCT 133
Db 424 AspGluValLysGlnSerGlyAlaIleValHisPheIleAlaLeuGlyArgAlaAsp 443
Qy 134 CAAGAACTAGAGAGCTGTCCAAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAA 193
Db 444 GluAlaValIleGluMetSerLysIleThrGlyGlySerHisPheTyrValSerAspGlu 463
Qy 194 GTTCAGAACATGGCTCATGTAGTCTTTTGGGGCCCTTTTCATCAGAAATGAGCTGTC 253
Db 464 AlaGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuThrSerGlyAsnThrAspLeu 483
Qy 254 TCTCAGCGCTCCATCCAGCTTGAGACTAAGGGATTA 289
Db 484 SerGlnLysSerLeuGlnLeuGluSerLysGlyLeu 495

RESULT 5
US-09-193-562D-46
; Sequence 46, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 46
; LENGTH: 903
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Calcium sensitive chloride channel from bovine tracheal
; OTHER INFORMATION: epithelium (Cunningham et al., 1995, J. Biol Chem., 270:31016-
; OTHER INFORMATION: 31026)
US-09-193-562D-46

Alignment Scores:
Pred. No.: 3,77e-28 Length: 903
Score: 285.00 Matches: 59
Percent Similarity: 77.42% Conservative: 13
Best Local Similarity: 63.44% Mismatches: 19
Query Match: 53.67% Indels: 2
DB: 4 Gaps: 1

US-09-049-696-7 (1-289) x US-09-193-562D-46 (1-903)

Qy 11 ACTGATGGATCTGAATTTGCTGTGACGGATGGGGAAGACAACAACACTATAAGTGGGTGC 70
Db 405 ThrSerGlySerGluIleLeuLeuThrAspGlyGluAspAsnGluIleHisSerCys 424
Qy 71 TTTTACGAGGTCAAAACAAGTNGTGCATCCACACAGTCGCTTTGGGGCCCTCTGCA 130
Db 425 IleGluGluValLysGlnSerGlyValIleIleHisThrValAlaLeuGlyProSerAla 444
Qy 131 GCTCAAGAACTAGAGAGCTGTCCAAAATGACAGGAGGTTTACAGACATATGCTTCAGAT 190
Db 445 AlaLysGluLeuGluThrLeuSerAspMetThrGlyGlyHisArgPheTyrAlaAsnLys 464

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; SEQ ID NO 11
; LENGTH: 795
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-11

Alignment Scores:
Pred. No.: 5.27e-27 Length: 795
Score: 276.00 Matches: 55
Percent Similarity: 78.49% Conservative: 18
Best Local Similarity: 59.14% Mismatches: 18
Query Match: 51.98% Indels: 2
DB: 4 Gaps: 1

US-09-049-696-7 (1-289) x US-09-193-562D-11 (1-795)

QY 11 ACTGATGGATCTCAAAATGCTGCTGACGGATGGGGAAGACAACTATAAGTGGTGC 70
Db 406 ThrSerGlySerGluLeuThrAspGlyGluAspAsnGluLeuAenSerCys 425

QY 71 TTAAACGAGTCAAAAGAGTNGTCCATCCACACAGTCCCTTTGGGGCCCTCTGCA 130
Db 426 PheGluAspValysArgSerGlyAlaIleHisThrIleAlaLeuGlyProSerAla 445

QY 131 GCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGAGGTTTACAGACATATGCTTCAGAT 190
Db 446 AlaLysGluLeuGluThrLysSerAsnMetThrGlyGlyTyArgPhePheAlaAenLys 465

QY 191 CAAGTTCAACAATGGCCTCATGATGCTTTGGGGCCCTTTTCATCAGAAATGGAGCT 250
Db 466 AspIle-----ThrGlyLeuThrAsnAlaPheSerArgIleSerArgSerGlySer 483

QY 251 GTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 289
Db 484 IleThrGlnGlnAlaIleGlnLeuGluSerLysAlaLeu 496

RESULT 9
US-09-193-562D-12
; Sequence 12, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 12
; LENGTH: 821
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-12

Alignment Scores:
Pred. No.: 5.32e-27 Length: 821
Score: 276.00 Matches: 55
Percent Similarity: 78.49% Conservative: 18
Best Local Similarity: 59.14% Mismatches: 18
Query Match: 51.98% Indels: 2
DB: 4 Gaps: 1

US-09-049-696-7 (1-289) x US-09-193-562D-12 (1-821)

QY 11 ACTGATGGATCTCAAAATGCTGCTGACGGATGGGGAAGACAACTATAAGTGGTGC 70
Db 406 ThrSerGlySerGluLeuThrAspGlyGluAspAsnGluLeuAenSerCys 425
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QY 71 TTAAACGAGTCAAAAGAGTNGTCCATCCACACAGTCCCTTTGGGGCCCTCTGCA 130
Db 426 PheGluAspValysArgSerGlyAlaIleHisThrIleAlaLeuGlyProSerAla 445

QY 131 GCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGAGGTTTACAGACATATGCTTCAGAT 190
Db 446 AlaLysGluLeuGluThrLysSerAsnMetThrGlyGlyTyArgPhePheAlaAenLys 465

QY 191 CAAGTTCAACAATGGCCTCATGATGCTTTGGGGCCCTTTTCATCAGAAATGGAGCT 250
Db 466 AspIle-----ThrGlyLeuThrAsnAlaPheSerArgIleSerArgSerGlySer 483

QY 251 GTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 289
Db 484 IleThrGlnGlnAlaIleGlnLeuGluSerLysAlaLeu 496

RESULT 10
US-09-193-562D-2
; Sequence 2, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 2
; LENGTH: 905
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells
US-09-193-562D-2

Alignment Scores:
Pred. No.: 5.48e-27 Length: 905
Score: 276.00 Matches: 55
Percent Similarity: 78.49% Conservative: 18
Best Local Similarity: 59.14% Mismatches: 18
Query Match: 51.98% Indels: 2
DB: 4 Gaps: 1

US-09-049-696-7 (1-289) x US-09-193-562D-2 (1-905)

QY 11 ACTGATGGATCTCAAAATGCTGCTGACGGATGGGGAAGACAACTATAAGTGGTGC 70
Db 406 ThrSerGlySerGluLeuThrAspGlyGluAspAsnGluLeuAenSerCys 425

QY 71 TTAAACGAGTCAAAAGAGTNGTCCATCCACACAGTCCCTTTGGGGCCCTCTGCA 130
Db 426 PheGluAspValysArgSerGlyAlaIleHisThrIleAlaLeuGlyProSerAla 445

QY 131 GCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGAGGTTTACAGACATATGCTTCAGAT 190
Db 446 AlaLysGluLeuGluThrLysSerAsnMetThrGlyGlyTyArgPhePheAlaAenLys 465

QY 191 CAAGTTCAACAATGGCCTCATGATGCTTTGGGGCCCTTTTCATCAGAAATGGAGCT 250
Db 466 AspIle-----ThrGlyLeuThrAsnAlaPheSerArgIleSerArgSerGlySer 483

QY 251 GTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTA 289
Db 484 IleThrGlnGlnAlaIleGlnLeuGluSerLysAlaLeu 496

RESULT 11
US-09-193-562D-30
; Sequence 30, Application US/09193562D
; Patent No. 6309857
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/ GENERAL INFORMATION:
/ APPLICANT: Pauli, Benedicht U.
/ TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
/ TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
/ FILE REFERENCE: 18617.0052
/ CURRENT APPLICATION NUMBER: US/09/193,562D
/ CURRENT FILING DATE: 1998-11-17
/ PRIOR APPLICATION NUMBER: US/60/065,922
/ PRIOR FILING DATE: 1997-11-17
/ NUMBER OF SEQ ID NOS: 47
/ SEQ ID NO 30
/ LENGTH: 1000
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-193-562D-30

Alignment Scores:
Pred. No.: 3,62e-25 Length: 1000
Score: 262.00 Matches: 59
Percent Similarity: 63.72% Conservative: 13
Best Local Similarity: 52.21% Mismatches: 19
Query Match: 49.34% Indels: 22
DB: 4 Gaps: 2

US-09-049-696-7 (1-289) x US-09-193-562D-30 (1-1000)
QY 11 ACTGATGATCTGAATTGCTGCTGACGGATGGGAGACACACTATAGTGGTGC 70
Db 404 ThrPheGlySerGluIleIleLeuLeuThrAspGlyGluAspTyrGlnIleSerLeuCys 423
QY 71 TTTAAGAGGTCACAAACAAAGTNGTCCATCCACACAGTCGCTTTGGGGCCCTCTGCA 130
Db 424 PheGlyGluValGlnSerGlyThrValIleHisThrIleAlaLeuGlyProSerAla 443
QY 131 GCTCAAGAACTAGAGAGGTGTCCTCAAAATGACAGCA----- 166
Db 444 AspGluGluLeuGluThrLeuSerAsnMetThrGlyLeuHisLysGlyHisCysTyrThr 463
QY 167 -----GGTTTACACACATATGCTTCAGAT 190
Db 464 GluSerSerTyrSerAlaGlyLysPheIlePheCysGlyHisArgPheTyrAlaHisLys 483
QY 191 CAAGTTTCAGAACAAATGGCTCATTTGATGCTTTTGGGGCCCTTTCATCAGGAAATGGAGCT 250
Db 484 AsnIle-----AsnGlyLeuIleAspAlaPheSerArgIleSerSerArgSerGlySer 501
QY 251 GTCTCTCAGCGTCCATCCAGCTTGAGTAAAGGATTA 289
Db 502 IleSerGlnGlnAlaLeuGlnLeuGluSerLysThrLeu 514

RESULT 12
US-09-643-597-169
/ Sequence 169, Application US/09643597
/ Patent No. 6426072
/ GENERAL INFORMATION:
/ APPLICANT: Wang, Tongtong
/ APPLICANT: Fan, Liqun
/ APPLICANT: Kalos, Michael D.
/ APPLICANT: Bangur, Chaitanya S.
/ APPLICANT: Hosken, Nancy
/ APPLICANT: Fanger, Gary R.
/ APPLICANT: Li, Samuel X.
/ APPLICANT: Wang, Aijun
/ APPLICANT: Skeiky, Yasir A.W.
/ APPLICANT: Henderson, Robert A.
/ APPLICANT: McNeill, Patricia D.
/ TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
/ FILE REFERENCE: 210121.455C11
/ CURRENT APPLICATION NUMBER: US/09/643,597
/ CURRENT FILING DATE: 2000-08-21
/ NUMBER OF SEQ ID NOS: 369
/ SOFTWARE: FastSeq for Windows Version 3.0

/ SEQ ID NO 169
/ LENGTH: 592
/ TYPE: PRT
/ ORGANISM: Homo sapien
US-09-643-597-169

Alignment Scores:
Pred. No.: 1.5e-19 Length: 592
Score: 218.00 Matches: 43
Percent Similarity: 66.67% Conservative: 17
Best Local Similarity: 47.78% Mismatches: 30
Query Match: 41.05% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-7 (1-289) x US-09-643-597-169 (1-592)
QY 17 GGATCTGAATTTGCTGCTGACGGATGGGAGACACACTATAGTGGTGGCTTTTAAAC 76
Db 412 GlySerValMetIleLeuValThrSerGlyAspAspLysLeuLeuGlyAsnCysLeuPro 431
QY 77 GAGGTCAACAAAGTNGTCCATCATCCACACAGTCGCTTTGGGGCCCTCTTCAGCTCAA 136
Db 432 ThrValLeuSerSerGlySerThrIleHisSerIleAlaLeuGlySerSerAlaAlaPro 451
QY 137 GAACTAGAGAGGCTCTCCAAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTT 196
Db 452 AsnLeuGluLeuSerArgLeuThrGlyGlyLeuLysPhePheValProAspIleSer 471
QY 197 CAGAACATGGCTCATTTGATGCTTTTGGGGCCCTTTCATCAGGAAATGGAGCTGTCTCT 256
Db 472 AsnSerAsnSerMetIleAspAlaPheSerArgIleSerSerGlyThrGlyAspIlePhe 491
QY 257 CAGCGCTCCATCCAGCTTGAGAGTAAGGA 286
Db 492 GlnGlnHisIleGlnLeuGluSerThrGly 501

RESULT 13
US-09-480-884A-169
/ Sequence 169, Application US/09480884A
/ Patent No. 6482597
/ GENERAL INFORMATION:
/ APPLICANT: Wang, Tongtong
/ APPLICANT: Fan, Liqun
/ APPLICANT: Hosken, Nancy A.
/ APPLICANT: Kalos, Michael D.
/ APPLICANT: Fanger, Gary R.
/ TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
/ TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
/ FILE REFERENCE: 210121.455C6
/ CURRENT APPLICATION NUMBER: US/09/480,884A
/ CURRENT FILING DATE: 2001-08-27
/ NUMBER OF SEQ ID NOS: 330
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 169
/ LENGTH: 592
/ TYPE: PRT
/ ORGANISM: Homo sapien
US-09-480-884A-169

Alignment Scores:
Pred. No.: 1.5e-19 Length: 592
Score: 218.00 Matches: 43
Percent Similarity: 66.67% Conservative: 17
Best Local Similarity: 47.78% Mismatches: 30
Query Match: 41.05% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-7 (1-289) x US-09-480-884A-169 (1-592)
QY 17 GGATCTGAATTTGCTGCTGACGGATGGGAGACACACTATAGTGGTGGCTTTTAAAC 76
Db 412 GlySerValMetIleLeuValThrSerGlyAspAspLysLeuLeuGlyAsnCysLeuPro 431
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QY 77 GAGGTCAAAAGTNGTCCCATCATCCACAGAGTGGCTTTGGGGCCCTCTCGAGCTCAA 136  
Db 432 ThrValLeuSerSerGlySerThrIleHisSerIleAlaLeuGlySerSerAlaAlaPro 451  
QY 137 GAACTAGAGGAGCTGCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTT 196  
Db 452 AsnLeuGluLeuSerArgLeuThrGlyGlyLeuLysPheValProAspIleSer 471  
QY 197 CAGAACAAATGGCTCATTCATGCTTTGGGGCCCTTTCATCAGGAAATGGAGCTGTCTCT 256  
Db 472 AsnSerAsnSerMetIleAspAlaPheSerArgIleSerSerGlyThrGlyAspIlePhe 491  
QY 257 CAGCGCTCCATCCAGCTTGAGAGTAAGGA 286  
Db 492 GlnGlnHisIleGlnLeuGluSerThrGly 501

## RESULT 14

US-09-542-615A-169

; Sequence 169, Application US/09542615A

; Patent No. 6518256

; GENERAL INFORMATION:

; APPLICANT: Wang, Tongtong

; APPLICANT: Fan, Liqun

; APPLICANT: Kalos, Michael D.

; APPLICANT: Bangur, Chaitanya S.

; APPLICANT: Hosken, Nancy A.

; APPLICANT: Fanger, Gary R.

; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY

; FILE REFERENCE: 210121.455C8

; CURRENT APPLICATION NUMBER: US/09/542,615A

; CURRENT FILING DATE: 2000-04-14

; NUMBER OF SEQ ID NOS: 350

; SEQ ID NO 169

; TYPE: PRT

; ORGANISM: Homo sapien

US-09-542-615A-169

Alignment Scores:

Pred. No.:

Score:

Percent Similarity:

Best Local Similarity:

Query Match:

DB:

Length:

Matches:

Conservative:

Mismatch:

Indels:

Gaps:

US-09-049-696-7 (1-289) x US-09-542-615A-169 (1-592)

QY 17 GGATCTGAATTTGCTGCTGACGATGGGAGAACACTATAGTGGTGCTTTAAC 76

Db 412 GlySerValMetIleLeuValThrSerGlyAspLysLeuLeuGlyAsnCysLeuPro 431

QY 77 GAGGTCAAAAGTNGTCCCATCATCCACAGTGGCTTTGGGGCCCTCTCGAGCTCAA 136

Db 432 ThrValLeuSerSerGlySerThrIleHisSerIleAlaLeuGlySerSerAlaAlaPro 451

QY 137 GAACTAGAGGAGCTGCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTT 196

Db 452 AsnLeuGluLeuSerArgLeuThrGlyGlyLeuLysPheValProAspIleSer 471

QY 197 CAGAACAAATGGCTCATTCATGCTTTGGGGCCCTTTCATCAGGAAATGGAGCTGTCTCT 256

Db 472 AsnSerAsnSerMetIleAspAlaPheSerArgIleSerSerGlyThrGlyAspIlePhe 491

QY 257 CAGCGCTCCATCCAGCTTGAGAGTAAGGA 286

Db 492 GlnGlnHisIleGlnLeuGluSerThrGly 501

RESULT 15

US-09-606-421B-169

; Sequence 169, Application US/09606421B

; Patent No. 6531315  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Fan, Liqun  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Hosken, Nancy  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Li, Samuel X.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Skeiky, Yasir A.W.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; FILE REFERENCE: 210121.455C9  
; CURRENT APPLICATION NUMBER: US/09/606,421B  
; CURRENT FILING DATE: 2000-06-28  
; NUMBER OF SEQ ID NOS: 358  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 169  
; LENGTH: 592  
; TYPE: PRT  
; ORGANISM: Homo sapien  
US-09-606-421B-169

## Alignment Scores:

Pred. No.:

Score:

Percent Similarity:

Best Local Similarity:

Query Match:

DB:

Length:

Matches:

Conservative:

Mismatch:

Indels:

Gaps:

US-09-049-696-7 (1-289) x US-09-606-421B-169 (1-592)

QY 17 GGATCTGAATTTGCTGCTGACGATGGGAGAACACTATAGTGGTGCTTTAAC 76

Db 412 GlySerValMetIleLeuValThrSerGlyAspLysLeuLeuGlyAsnCysLeuPro 431

QY 77 GAGGTCAAAAGTNGTCCCATCATCCACAGTGGCTTTGGGGCCCTCTCGAGCTCAA 136

Db 432 ThrValLeuSerSerGlySerThrIleHisSerIleAlaLeuGlySerSerAlaAlaPro 451

QY 137 GAACTAGAGGAGCTGCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTT 196

Db 452 AsnLeuGluLeuSerArgLeuThrGlyGlyLeuLysPheValProAspIleSer 471

QY 197 CAGAACAAATGGCTCATTCATGCTTTGGGGCCCTTTCATCAGGAAATGGAGCTGTCTCT 256

Db 472 AsnSerAsnSerMetIleAspAlaPheSerArgIleSerSerGlyThrGlyAspIlePhe 491

QY 257 CAGCGCTCCATCCAGCTTGAGAGTAAGGA 286

Db 492 GlnGlnHisIleGlnLeuGluSerThrGly 501

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Job time : 17.7475 secs

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OM nucleic - nucleic search, using sw model

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Title: US-09-049-696-6

Perfect score: 252

Sequence: 1 CAAGAATGTGTGTTTACT.....GAGGACGTCATCTGCAGC 252

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Gapop 10\_0 , Gapext 1.0

Searched: 2907579 seqs, 2254313464 residues

Total number of hits satisfying chosen parameters: 5815158

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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16: /cgn2\_6/prodata/2/pubpna/US10C\_PUBCOMB.seq.\*  
17: /cgn2\_6/prodata/2/pubpna/US10\_NEW\_PUB.seq.\*  
18: /cgn2\_6/prodata/2/pubpna/US60\_NEW\_PUB.seq.\*  
19: /cgn2\_6/prodata/2/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	252	100.0	2745	15	US-10-270-595-5 Sequence 5, Appl
2	252	100.0	2854	15	US-10-106-698-1971 Sequence 1971, Ap
3	252	100.0	3007	15	US-10-055-412B-27 Sequence 27, Appl
4	252	100.0	3109	15	US-10-106-698-2111 Sequence 2111, Ap
5	252	100.0	3111	9	US-09-823-356-25 Sequence 25, Appl
6	252	100.0	3111	9	US-09-981-353-191 Sequence 191, Appl
7	252	100.0	3111	15	US-10-235-994-25 Sequence 25, Appl
8	252	100.0	3267	9	US-09-764-868-22 Sequence 22, Appl
9	252	100.0	3311	9	US-09-922-217-1056 Sequence 1056, Ap
10	252	100.0	3311	9	US-09-833-263-1056 Sequence 1056, Ap
11	252	100.0	3311	14	US-10-025-380-1056 Sequence 1056, Ap
12	252	100.0	3311	15	US-10-393-590-11 Sequence 11, Appl
13	252	100.0	3311	15	US-10-393-590-12 Sequence 12, Appl
14	252	100.0	3311	15	US-10-393-590-46 Sequence 46, Appl

15 252 100.0 3311 15 US-10-393-590-47 Sequence 47, Appl  
16 252 100.0 3311 15 US-10-393-567-11 Sequence 11, Appl  
17 252 100.0 3311 15 US-10-393-567-12 Sequence 12, Appl  
18 252 100.0 3311 15 US-10-393-567-46 Sequence 46, Appl  
19 252 100.0 3311 15 US-10-393-567-47 Sequence 47, Appl  
20 252 100.0 3311 15 US-10-394-087-11 Sequence 11, Appl  
21 252 100.0 3311 15 US-10-394-087-12 Sequence 12, Appl  
22 252 100.0 3311 15 US-10-394-087-46 Sequence 46, Appl  
23 252 100.0 3311 15 US-10-394-087-47 Sequence 47, Appl  
24 250.4 99.4 4569 10 US-09-867-034-3 Sequence 3, Appl  
25 250.4 99.4 4569 13 US-10-276-115-3 Sequence 3, Appl  
26 241 95.6 2867 15 US-10-106-698-351 Sequence 351, Appl  
27 164.2 65.2 2931 15 US-10-270-595-1 Sequence 1, Appl  
28 140.2 55.6 619 16 US-10-305-720-931 Sequence 931, Appl  
29 140.2 55.6 2754 15 US-10-345-680-33 Sequence 33, Appl  
30 140.2 55.6 3043 14 US-10-025-167-16 Sequence 16, Appl  
31 140.2 55.6 3169 9 US-09-981-353-53 Sequence 53, Appl  
32 140.2 55.6 3169 15 US-10-235-994-15 Sequence 15, Appl  
33 140.2 55.6 3181 14 US-10-025-167-18 Sequence 18, Appl  
34 140.2 55.6 3195 10 US-09-867-034-22 Sequence 22, Appl  
35 140.2 55.6 3195 13 US-10-276-115-22 Sequence 22, Appl  
36 140.2 55.6 3196 15 US-10-158-646-39 Sequence 39, Appl  
37 140.2 55.6 3199 13 US-10-276-774-953 Sequence 993, Appl  
38 140.2 55.6 3204 15 US-10-345-680-31 Sequence 31, Appl  
39 140.2 55.6 3207 15 US-10-101-510-660 Sequence 660, Appl  
40 140.2 55.6 3218 16 US-10-087-080-33 Sequence 33, Appl  
41 140.2 55.6 3265 9 US-09-989-723-378 Sequence 378, Appl  
42 140.2 55.6 3265 9 US-09-989-723-378 Sequence 378, Appl  
43 140.2 55.6 3265 9 US-09-989-279-378 Sequence 378, Appl  
44 140.2 55.6 3265 9 US-09-989-727-378 Sequence 378, Appl  
45 140.2 55.6 3265 9 US-09-989-731-378 Sequence 378, Appl

#### ALIGNMENTS

#### RESULT 1

US-10-270-595-5  
; Sequence 5, Application US/10270595  
; Publication No. US20030078409A1  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; PRIOR FILING DATE: 2002-10-16  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 2745

TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (1)..(2742)  
US-10-270-595-5

Query Match 100.0%; Score 252; DB 15; Length 2745;  
Best Local Similarity 100.0%; Pred. No. 4.8e-79;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAAGAATTGTGTGTTAGTCTTGCACAAATCTGGAAGCATGCGAGCTGGTAACCGCCTC 60  
DB 910 CAAGAATTGTGTGTTAGTCTTGCACAAATCTGGAAGCATGCGAGCTGGTAACCGCCTC 969

QY 61 AATCGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTTGG 120  
DB 970 AATCGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTTGG 1029

QY 121 GTTGGGATGGTGCACATTTGCACAGTGTGCTGCCATGTACAAAGTGAATCATACAGATAAAC 180  
DB 1030 GTTGGATGGTGCACATTTGCACAGTGTGCTGCCATGTACAAAGTGAATCATACAGATAAAC 1089

QY 181 AGTGGCAGTGACAGGACACACTCGCCAAAGATTACCTGCGACAGCTTTCAGGAGGAGCG 240  
DB 1090 AGTGGCAGTGACAGGACACACTCGCCAAAGATTACCTGCGACAGCTTTCAGGAGGAGCG 1149

QY 241 TCCATCTGCAGC 252  
DB 1150 TCCATCTGCAGC 1161

RESULT 2  
US-10-106-698-1971  
; Sequence 1971, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005PI  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 1971  
; LENGTH: 2854  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-106-698-1971

Query Match 100.0%; Score 252; DB 15; Length 2854;  
Best Local Similarity 100.0%; Pred. No. 4.9e-79;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAAGAATTGTGTGTTAGTCTTGCACAAATCTGGAAGCATGCGAGCTGGTAACCGCCTC 60  
DB 944 CAAGAATTGTGTGTTAGTCTTGCACAAATCTGGAAGCATGCGAGCTGGTAACCGCCTC 1003

QY 61 AATCGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTTGG 120  
DB 1004 AATCGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTTGG 1063

QY 121 GTTGGGATGGTGCACATTTGCACAGTGTGCTGCCATGTACAAAGTGAATCATACAGATAAAC 180  
DB 1064 GTTGGGATGGTGCACATTTGCACAGTGTGCTGCCATGTACAAAGTGAATCATACAGATAAAC 1123

QY 181 AGTGGCAGTGACAGGACACACTCGCCAAAGATTACCTGCGACAGCTTTCAGGAGGAGCG 240

Db 1124 AGTGGCAGTGACAGGACACACTCGCCAAAGATTACCTGCGACAGCTTTCAGGAGGAGCG 1183

QY 241 TCCATCTGCAGC 252

Db 1184 TCCATCTGCAGC 1195

RESULT 3  
US-10-055-412B-27  
; Sequence 27, Application US/10055412B  
; Publication No. US20030059861A1  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedict U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10-055,412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 27  
; LENGTH: 3007  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-055-412B-27

Query Match 100.0%; Score 252; DB 15; Length 3007;  
Best Local Similarity 100.0%; Pred. No. 5e-79;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAAGAATTGTGTGTTAGTCTTGCACAAATCTGGAAGCATGCGAGCTGGTAACCGCCTC 60  
DB 956 CAAGAATTGTGTGTTAGTCTTGCACAAATCTGGAAGCATGCGAGCTGGTAACCGCCTC 1015

QY 61 AATCGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTTGG 120  
DB 1016 AATCGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTTGG 1075

QY 121 GTTGGGATGGTGCACATTTGCACAGTGTGCTGCCATGTACAAAGTGAATCATACAGATAAAC 180  
DB 1076 GTTGGGATGGTGCACATTTGCACAGTGTGCTGCCATGTACAAAGTGAATCATACAGATAAAC 1135

QY 181 AGTGGCAGTGACAGGACACACTCGCCAAAGATTACCTGCGACAGCTTTCAGGAGGAGCG 240  
DB 1136 AGTGGCAGTGACAGGACACACTCGCCAAAGATTACCTGCGACAGCTTTCAGGAGGAGCG 1195

QY 241 TCCATCTGCAGC 252

Db 1196 TCCATCTGCAGC 1207

RESULT 4  
US-10-106-698-2111  
; Sequence 2111, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005PI  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0

; SEQ ID NO 2111  
; LENGTH: 3109  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-106-698-2111

Query Match 100.0%; Score 252; DB 15; Length 3109;  
Best Local Similarity 100.0%; Pred. No. 5.1e-79;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAAGAATTTGTGTTAGTCTTGACAAATCTGGAAGCATGGCGACTGGTAACCGCCTC 60  
DB 797 CAAAGAATTGTGTTAGTCTTGACAAATCTGGAAGCATGGCGACTGGTAACCGCCTC 856

QY 61 AATCGACTGAATCAAGCAGGCCACACTTCCTGCTGCAGACAGTTGAGCTGGGGTCTCTGG 120  
DB 857 AATCGACTGAATCAAGCAGGCCACACTTCCTGCTGCAGACAGTTGAGCTGGGGTCTCTGG 916

QY 121 GTTGGGATGGTGACATTTGACAGTCTGCCCATGTACAAAGTGAACATCATACAGATAAAC 180  
DB 917 GTTGGGATGGTGACATTTGACAGTCTGCCCATGTACAAAGTGAACATCATACAGATAAAC 976

QY 181 AGTGGCAGTGACAGGAGCACACTTCGCCCCAAGATTACCTGCAGCAGCTTCAGGAGGGACG 240  
DB 977 AGTGGCAGTGACAGGAGCACACTTCGCCCCAAGATTACCTGCAGCAGCTTCAGGAGGGACG 1036

QY 241 TCCATCTGCAGC 252  
DB 1037 TCCATCTGCAGC 1048

RESULT 5  
US-09-823-356-25  
; Sequence 25, Application US/09823356  
; Patent No. US20010025098A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guerrier, Karl J.  
; APPLICANT: Kaser, Matthew R.  
; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
; FILE REFERENCE: PF-0489-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823,356  
; CURRENT FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/039,307  
; PRIOR FILING DATE: 1998 March 13  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PERL Program  
; SEQ ID NO 25  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775  
US-09-823-356-25

Query Match 100.0%; Score 252; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 5.1e-79;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAAGAATTTGTGTTAGTCTTGACAAATCTGGAAGCATGGCGACTGGTAACCGCCTC 60  
DB 943 CAAAGAATTGTGTTAGTCTTGACAAATCTGGAAGCATGGCGACTGGTAACCGCCTC 1002

QY 61 AATCGACTGAATCAAGCAGGCCACACTTCCTGCTGCAGACAGTTGAGCTGGGGTCTCTGG 120  
DB 1003 AATCGACTGAATCAAGCAGGCCACACTTCCTGCTGCAGACAGTTGAGCTGGGGTCTCTGG 1062

QY 121 GTTGGGATGGTGACATTTGACAGTCTGCCCATGTACAAAGTGAACATCATACAGATAAAC 180  
DB 1063 GTTGGGATGGTGACATTTGACAGTCTGCCCATGTACAAAGTGAACATCATACAGATAAAC 1122

QY 181 AGTGGCAGTGACAGGAGCACACTTCGCCCCAAGATTACCTGCAGCAGCTTCAGGAGGGACG 240  
DB 1123 AGTGGCAGTGACAGGAGCACACTTCGCCCCAAGATTACCTGCAGCAGCTTCAGGAGGGACG 1182

QY 241 TCCATCTGCAGC 252  
DB 1183 TCCATCTGCAGC 1194

RESULT 6  
US-09-981-353-191  
; Sequence 191, Application US/09981353  
; Patent No. US20020160382A1  
; GENERAL INFORMATION:  
; APPLICANT: Lassek, Amy W.  
; APPLICANT: Jones, David A.  
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
; FILE REFERENCE: PA-0038 US  
; CURRENT APPLICATION NUMBER: US/09/981,353  
; CURRENT FILING DATE: 2001-10-11  
; NUMBER OF SEQ ID NOS: 194  
; SOFTWARE: PERL Program  
; SEQ ID NO 191  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CB1  
US-09-981-353-191

Query Match 100.0%; Score 252; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 5.1e-79;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAAGAATTTGTGTTAGTCTTGACAAATCTGGAAGCATGGCGACTGGTAACCGCCTC 60  
DB 943 CAAAGAATTGTGTTAGTCTTGACAAATCTGGAAGCATGGCGACTGGTAACCGCCTC 1002

QY 61 AATCGACTGAATCAAGCAGGCCACACTTCCTGCTGCAGACAGTTGAGCTGGGGTCTCTGG 120  
DB 1003 AATCGACTGAATCAAGCAGGCCACACTTCCTGCTGCAGACAGTTGAGCTGGGGTCTCTGG 1062

QY 121 GTTGGGATGGTGACATTTGACAGTCTGCCCATGTACAAAGTGAACATCATACAGATAAAC 180  
DB 1063 GTTGGGATGGTGACATTTGACAGTCTGCCCATGTACAAAGTGAACATCATACAGATAAAC 1122

QY 181 AGTGGCAGTGACAGGAGCACACTTCGCCCCAAGATTACCTGCAGCAGCTTCAGGAGGGACG 240  
DB 1123 AGTGGCAGTGACAGGAGCACACTTCGCCCCAAGATTACCTGCAGCAGCTTCAGGAGGGACG 1182

QY 241 TCCATCTGCAGC 252  
DB 1183 TCCATCTGCAGC 1194

RESULT 7  
US-10-235-994-25  
; Sequence 25, Application US/10235994  
; Publication No. US20030101002A1  
; GENERAL INFORMATION:  
; APPLICANT: Bartha, Gabor  
; APPLICANT: Walker, Michael  
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS  
; FILE REFERENCE: ICYT0012  
; CURRENT APPLICATION NUMBER: US/10/235,994  
; CURRENT FILING DATE: 2002-09-04

```
; PRIOR APPLICATION NUMBER: US/10/003,608
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,081
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 3111
; TYPE: DNA
; ORGANISM: Human
US-10-235-994-25

Query Match
Best Local Similarity 100.0%; Score 252; DB 15; Length 3111;
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAAGAATTGTGTTAGTCTTGCACAAATCTGGAAGCATGGCACTGGTAACCGCCTC 60
DB 943 CAAGAATTGTGTTAGTCTTGCACAAATCTGGAAGCATGGCACTGGTAACCGCCTC 1002
QY 61 AATCGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTTGG 120
DB 1003 AATCGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTTGG 1062
QY 121 GTTGGGATGGTGACATTTGACAGTGTGCCCATGTACAAAGTGAACCTATACAGATAAAC 180
DB 1063 GTTGGGATGGTGACATTTGACAGTGTGCCCATGTACAAAGTGAACCTATACAGATAAAC 1122
QY 181 AGTGCAGTGCAGGAGACACTCGCCAAAGATTAACCTGCGAGCAGTTTCAGAGGGGACG 240
DB 1123 AGTGCAGTGCAGGAGACACTCGCCAAAGATTAACCTGCGAGCAGTTTCAGAGGGGACG 1182
QY 241 TCCATCTGCAGC 252
DB 1183 TCCATCTGCAGC 1194

RESULT 8
US-09-764-868-22
; Sequence 22, Application US/09764868
; Patent No. US20020168711A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT232
; CURRENT APPLICATION NUMBER: US/09/764,868
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1510
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 22
; LENGTH: 3267
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-868-22

Query Match
Best Local Similarity 100.0%; Score 252; DB 9; Length 3267;
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAAGAATTGTGTTAGTCTTGCACAAATCTGGAAGCATGGCACTGGTAACCGCCTC 60
DB 944 CAAGAATTGTGTTAGTCTTGCACAAATCTGGAAGCATGGCACTGGTAACCGCCTC 1003
QY 61 AATCGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTTGG 120
DB 1004 AATCGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTTGG 1063
QY 121 GTTGGGATGGTGACATTTGACAGTGTGCCCATGTACAAAGTGAACCTATACAGATAAAC 180
DB 1064 GTTGGGATGGTGACATTTGACAGTGTGCCCATGTACAAAGTGAACCTATACAGATAAAC 1123
QY 181 AGTGGCAGTGACAGGAGACACTCGCCAAAGATTAACCTGCGAGCAGTTTCAGAGGGGACG 240

; PRIOR APPLICATION NUMBER: US/10/003,608
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,081
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 3111
; TYPE: DNA
; ORGANISM: Human
US-10-235-994-25

Query Match
Best Local Similarity 100.0%; Score 252; DB 15; Length 3111;
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAAGAATTGTGTTAGTCTTGCACAAATCTGGAAGCATGGCACTGGTAACCGCCTC 60
DB 943 CAAGAATTGTGTTAGTCTTGCACAAATCTGGAAGCATGGCACTGGTAACCGCCTC 1002
QY 61 AATCGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTTGG 120
DB 1003 AATCGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTTGG 1062
QY 121 GTTGGGATGGTGACATTTGACAGTGTGCCCATGTACAAAGTGAACCTATACAGATAAAC 180
DB 1063 GTTGGGATGGTGACATTTGACAGTGTGCCCATGTACAAAGTGAACCTATACAGATAAAC 1122
QY 181 AGTGCAGTGCAGGAGACACTCGCCAAAGATTAACCTGCGAGCAGTTTCAGAGGGGACG 240
DB 1123 AGTGCAGTGCAGGAGACACTCGCCAAAGATTAACCTGCGAGCAGTTTCAGAGGGGACG 1182
QY 241 TCCATCTGCAGC 252
DB 1183 TCCATCTGCAGC 1194

RESULT 9
US-09-922-217-1056
; Sequence 1056, Application US/09922217
; Patent No. US20020076414A1
; GENERAL INFORMATION:
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon B.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; CURRENT FILING DATE: 2001-08-03
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1056
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-922-217-1056

Query Match
Best Local Similarity 100.0%; Score 252; DB 9; Length 3311;
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAAGAATTGTGTTAGTCTTGCACAAATCTGGAAGCATGGCACTGGTAACCGCCTC 60
DB 1261 CAAGAATTGTGTTAGTCTTGCACAAATCTGGAAGCATGGCACTGGTAACCGCCTC 1320
QY 61 AATCGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTTGG 120
DB 1321 AATCGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTTGG 1380
QY 121 GTTGGGATGGTGACATTTGACAGTGTGCCCATGTACAAAGTGAACCTATACAGATAAAC 180
DB 1381 GTTGGGATGGTGACATTTGACAGTGTGCCCATGTACAAAGTGAACCTATACAGATAAAC 1440
QY 181 AGTGGCAGTGACAGGAGACACTCGCCAAAGATTAACCTGCGAGCAGTTTCAGAGGGGACG 240
DB 1441 AGTGGCAGTGACAGGAGACACTCGCCAAAGATTAACCTGCGAGCAGTTTCAGAGGGGACG 1500
QY 241 TCCATCTGCAGC 252
DB 1501 TCCATCTGCAGC 1512

RESULT 10
US-09-833-263-1056
; Sequence 1056, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Stolk, John A.
; APPLICANT: Meagher, Madeleine J.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
```

; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.471C12  
; CURRENT APPLICATION NUMBER: US/09/833,263  
; CURRENT FILING DATE: 2001-04-10  
; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 1056  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-833-263-1056

Query Match 100.0%; Score 252; DB 9; Length 3311;  
Best Local Similarity 100.0%; Pred. No. 5.3e-79;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAAGAATTGTGTTAGTCTTGAACAATCTGGAAGCATGCGCACTGGTAACCGCCTC 60  
DB 1261 CAAGAATTGTGTTAGTCTTGAACAATCTGGAAGCATGCGCACTGGTAACCGCCTC 1320

QY 61 AATCGACTGAATCAAGCAGCGCCAGCTTTCTGCTGCAGACAGTTGAGCTGGGGTCTCGG 120  
DB 1321 AATCGACTGAATCAAGCAGCGCCAGCTTTCTGCTGCAGACAGTTGAGCTGGGGTCTCGG 1380

QY 121 GTTGGATGGTGACATTTGACAGTGTGCTGCCCATGTACAAAGTGAATCTACAGATAAAC 180  
DB 1381 GTTGGATGGTGACATTTGACAGTGTGCTGCCCATGTACAAAGTGAATCTACAGATAAAC 1440

QY 181 AGTGGCAGTGACAGGAGCACACTCGCCAAAAGATTACCTGCAGCAGCTTTCAGGAGGAGC 240  
DB 1441 AGTGGCAGTGACAGGAGCACACTCGCCAAAAGATTACCTGCAGCAGCTTTCAGGAGGAGC 240

QY 241 TCCATCTGCAGC 252  
DB 1501 TCCATCTGCAGC 1512

RESULT 11  
US-10-025-380-1056  
; Sequence 1056, Application US/10025380  
; Publication No. US20020182191A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Yugu  
; APPLICANT: Smith, Carole L.  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Skeiky, Yasir A. W.  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Vedvick Thomas S.  
; APPLICANT: Carter, Darick  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; FILE REFERENCE: 210121.471C14  
; CURRENT APPLICATION NUMBER: US/10/025,380  
; CURRENT FILING DATE: 2001-12-19  
; NUMBER OF SEQ ID NOS: 1129  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1056  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-025-380-1056

Query Match 100.0%; Score 252; DB 14; Length 3311;  
Best Local Similarity 100.0%; Pred. No. 5.3e-79;

Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAAGAATTGTGTTAGTCTTGAACAATCTGGAAGCATGCGCACTGGTAACCGCCTC 60  
DB 1261 CAAGAATTGTGTTAGTCTTGAACAATCTGGAAGCATGCGCACTGGTAACCGCCTC 1320

QY 61 AATCGACTGAATCAAGCAGCGCCAGCTTTCTGCTGCAGACAGTTGAGCTGGGGTCTCGG 120  
DB 1321 AATCGACTGAATCAAGCAGCGCCAGCTTTCTGCTGCAGACAGTTGAGCTGGGGTCTCGG 1380

QY 121 GTTGGATGGTGACATTTGACAGTGTGCTGCCCATGTACAAAGTGAATCTACAGATAAAC 180  
DB 1381 GTTGGATGGTGACATTTGACAGTGTGCTGCCCATGTACAAAGTGAATCTACAGATAAAC 1440

QY 181 AGTGGCAGTGACAGGAGCACACTCGCCAAAAGATTACCTGCAGCAGCTTTCAGGAGGAGC 240  
DB 1441 AGTGGCAGTGACAGGAGCACACTCGCCAAAAGATTACCTGCAGCAGCTTTCAGGAGGAGC 240

QY 241 TCCATCTGCAGC 252  
DB 1501 TCCATCTGCAGC 1512

RESULT 12  
US-10-393-590-11  
; Sequence 11, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; PRIOR FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 11  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-590-11

Query Match 100.0%; Score 252; DB 15; Length 3311;  
Best Local Similarity 100.0%; Pred. No. 5.3e-79;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAAGAATTGTGTTAGTCTTGAACAATCTGGAAGCATGCGCACTGGTAACCGCCTC 60  
DB 1261 CAAGAATTGTGTTAGTCTTGAACAATCTGGAAGCATGCGCACTGGTAACCGCCTC 1320

QY 61 AATCGACTGAATCAAGCAGCGCCAGCTTTCTGCTGCAGACAGTTGAGCTGGGGTCTCGG 120  
DB 1321 AATCGACTGAATCAAGCAGCGCCAGCTTTCTGCTGCAGACAGTTGAGCTGGGGTCTCGG 1380

QY 121 GTTGGATGGTGACATTTGACAGTGTGCTGCCCATGTACAAAGTGAATCTACAGATAAAC 180  
DB 1381 GTTGGATGGTGACATTTGACAGTGTGCTGCCCATGTACAAAGTGAATCTACAGATAAAC 1440

QY 181 AGTGGCAGTGACAGGAGCACACTCGCCAAAAGATTACCTGCAGCAGCTTTCAGGAGGAGC 240  
DB 1441 AGTGGCAGTGACAGGAGCACACTCGCCAAAAGATTACCTGCAGCAGCTTTCAGGAGGAGC 240

QY 241 TCCATCTGCAGC 252  
DB 1501 TCCATCTGCAGC 1512

RESULT 13  
US-10-393-590-12  
; Sequence 12, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:

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; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: BREAST CANCER PROGNOSTIC PORTFOLIO
; FILE REFERENCE: CDS 268 US NP
; CURRENT APPLICATION NUMBER: US/10/393,590
; CURRENT FILING DATE: 2003-03-21
; PRIOR APPLICATION NUMBER: 60/368,789
; PRIOR FILING DATE: 2002-03-29
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 12
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: human
US-10-393-590-12

Query Match      100.0%; Score 252; DB 15; Length 3311;
Best Local Similarity 100.0%; Pred. No. 5.3e-79;
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAAGAATTGTGTTAGTCTTGCACAAATCTGGAAGCATGGCGACTGGTAACCGCCTC 60
DB 1261 CAAGAATTGTGTTAGTCTTGCACAAATCTGGAAGCATGGCGACTGGTAACCGCCTC 1320

QY 61 AATCGACTGAATCAAGCAGGCGCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTCTGG 120
DB 1321 AATCGACTGAATCAAGCAGGCGCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTCTGG 1380

QY 121 GTTGGATGTTGACATTTGACAGTGTGCTCCCATGTACAAAGTGAATCATACAGATAAAC 180
DB 1381 GTTGGATGTTGACATTTGACAGTGTGCTCCCATGTACAAAGTGAATCATACAGATAAAC 1440

QY 181 AGTGGCAGTGCAGGAGGACACTCGCCAAAGATTACCTGCGAGCAGCTTCAGGAGGAGC 240
DB 1441 AGTGGCAGTGCAGGAGGACACTCGCCAAAGATTACCTGCGAGCAGCTTCAGGAGGAGC 1500

QY 241 TCCATCTGCAGC 252
DB 1501 TCCATCTGCAGC 1512

RESULT 14
US-10-393-590-46
; Sequence 46, Application US/10393590
; Publication No. US20030190656A1
; GENERAL INFORMATION:
; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: BREAST CANCER PROGNOSTIC PORTFOLIO
; FILE REFERENCE: CDS 268 US NP
; CURRENT APPLICATION NUMBER: US/10/393,590
; CURRENT FILING DATE: 2003-03-21
; PRIOR APPLICATION NUMBER: 60/368,789
; PRIOR FILING DATE: 2002-03-29
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 46
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: human
US-10-393-590-46

Query Match      100.0%; Score 252; DB 15; Length 3311;
Best Local Similarity 100.0%; Pred. No. 5.3e-79;
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAAGAATTGTGTTAGTCTTGCACAAATCTGGAAGCATGGCGACTGGTAACCGCCTC 60
DB 1261 CAAGAATTGTGTTAGTCTTGCACAAATCTGGAAGCATGGCGACTGGTAACCGCCTC 1320

QY 61 AATCGACTGAATCAAGCAGGCGCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTCTGG 120
DB 1321 AATCGACTGAATCAAGCAGGCGCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTCTGG 1380

QY 121 GTTGGATGTTGACATTTGACAGTGTGCTCCCATGTACAAAGTGAATCATACAGATAAAC 180
DB 1381 GTTGGATGTTGACATTTGACAGTGTGCTCCCATGTACAAAGTGAATCATACAGATAAAC 1440

QY 181 AGTGGCAGTGCAGGAGGACACTCGCCAAAGATTACCTGCGAGCAGCTTCAGGAGGAGC 240
DB 1441 AGTGGCAGTGCAGGAGGACACTCGCCAAAGATTACCTGCGAGCAGCTTCAGGAGGAGC 1500

QY 241 TCCATCTGCAGC 252
DB 1501 TCCATCTGCAGC 1512

RESULT 15
US-10-393-590-47
; Sequence 47, Application US/10393590
; Publication No. US20030190656A1
; GENERAL INFORMATION:
; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: BREAST CANCER PROGNOSTIC PORTFOLIO
; FILE REFERENCE: CDS 268 US NP
; CURRENT APPLICATION NUMBER: US/10/393,590
; CURRENT FILING DATE: 2003-03-21
; PRIOR APPLICATION NUMBER: 60/368,789
; PRIOR FILING DATE: 2002-03-29
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 47
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: human
US-10-393-590-47

Query Match      100.0%; Score 252; DB 15; Length 3311;
Best Local Similarity 100.0%; Pred. No. 5.3e-79;
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAAGAATTGTGTTAGTCTTGCACAAATCTGGAAGCATGGCGACTGGTAACCGCCTC 60
DB 1261 CAAGAATTGTGTTAGTCTTGCACAAATCTGGAAGCATGGCGACTGGTAACCGCCTC 1320

QY 61 AATCGACTGAATCAAGCAGGCGCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTCTGG 120
DB 1321 AATCGACTGAATCAAGCAGGCGCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTCTGG 1380

QY 121 GTTGGATGTTGACATTTGACAGTGTGCTCCCATGTACAAAGTGAATCATACAGATAAAC 180
DB 1381 GTTGGATGTTGACATTTGACAGTGTGCTCCCATGTACAAAGTGAATCATACAGATAAAC 1440

QY 181 AGTGGCAGTGCAGGAGGACACTCGCCAAAGATTACCTGCGAGCAGCTTCAGGAGGAGC 240
DB 1441 AGTGGCAGTGCAGGAGGACACTCGCCAAAGATTACCTGCGAGCAGCTTCAGGAGGAGC 1500

QY 241 TCCATCTGCAGC 252
DB 1501 TCCATCTGCAGC 1512

Search completed: April 24, 2004, 06:38:11
Job time : 135.86 secs
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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: April 24, 2004, 00:33:00 ; Search time 23.1639 Seconds  
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6037.311 Million cell updates/sec

Title: US-09-049-696-6

Perfect score: 252

Sequence: 1 CAAGAATTGCTGTTAGT.....GAGGACGTCATCTGCAGC 252

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents NA.\*

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2: /cgn2\_6/prodata/2/ina/5B COMB.seq.\*  
3: /cgn2\_6/prodata/2/ina/6A COMB.seq.\*  
4: /cgn2\_6/prodata/2/ina/6B COMB.seq.\*  
5: /cgn2\_6/prodata/2/ina/PCTUS COMB.seq.\*  
6: /cgn2\_6/prodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES.

Result No.	Score	Query Match	Length	ID	Description
1	252	100.0	2745	4	US-09-623-624-5
2	252	100.0	3007	4	US-09-193-562D-27
3	164.2	65.2	2931	4	US-09-623-624-1
4	140.2	55.6	619	4	US-09-016-434-931
5	140.2	55.6	3043	4	US-09-049-698-16
6	140.2	55.6	3181	4	US-09-049-698-18
7	109	43.3	3022	4	US-09-193-562D-33
8	106.6	42.3	237	4	US-09-049-698-4
9	105.4	41.8	3418	4	US-09-193-562D-29
10	103.8	41.2	3317	4	US-09-193-562D-1
11	53.8	21.3	2773	4	US-09-643-597-358
12	53.8	21.3	2784	4	US-09-643-597-168
13	53.8	21.3	2784	4	US-09-480-884A-168
14	53.8	21.3	2784	4	US-09-542-615A-168
15	53.8	21.3	2784	4	US-09-606-421B-168
16	53.8	21.3	2970	4	US-09-193-562D-31
17	53.8	21.3	3156	4	US-09-919-172-86
18	53.8	21.3	3190	4	US-09-623-624-3
19	53.8	21.3	3362	4	US-09-643-597-167
20	53.8	21.3	3362	4	US-09-480-884A-167
21	53.8	21.3	3362	4	US-09-542-615A-167
22	53.8	21.3	3362	4	US-09-606-421B-167
23	53.8	21.3	3951	4	US-09-643-597-160
24	53.8	21.3	3951	4	US-09-480-884A-160
25	53.8	21.3	3951	4	US-09-542-615A-160
26	53.8	21.3	3951	4	US-09-606-421B-160
27	53.8	21.3	3951	4	US-09-221-107-160

Sequence 254, App  
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Sequence 254, App  
Sequence 3, Appli  
Sequence 3264, Ap  
Sequence 15639, A  
Sequence 58, Appl  
Sequence 18, Appl  
Sequence 1, Appli  
Sequence 962, App  
Sequence 2156, Ap  
Sequence 4058, Ap  
Sequence 4099, Ap  
Sequence 4089, Ap  
Sequence 8, Appli

## ALIGNMENTS

## RESULT 1

US-09-623-624-5  
; Sequence 5, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patent in Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 2745  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1) .. (2742)  
US-09-623-624-5

Query Match 100.0%; Score 252; DB 4; Length 2745;  
Best Local Similarity 100.0%; Pred. No. 3e-76;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAAGAATTGTGTTAGTCTTGACAAATCTGGAAGCATGGCACTGGTAACCGCCTC 60  
Db 910 CAAGAATTGTGTTAGTCTTGACAAATCTGGAAGCATGGCACTGGTAACCGCCTC 969  
QY 61 AATCGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTGG 120  
Db 970 AATCGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTGG 1029  
QY 121 GTTGGGATGGTGACATTTGACAGTGTGCCCCATGTACAAAGTGAATCATACAGATAAAC 180  
Db 1030 GTTGGGATGGTGACATTTGACAGTGTGCCCCATGTACAAAGTGAATCATACAGATAAAC 1089  
QY 181 AGTGGCAGTGACAGGACACACTCGCCAAAGATTACCTGCAGCAGCTTCAGAGGGAGC 240  
Db 1090 AGTGGCAGTGACAGGACACACTCGCCAAAGATTACCTGCAGCAGCTTCAGAGGGAGC 1149  
QY 241 TCCATCTGCAGC 252  
Db 1150 TCCATCTGCAGC 1161

## RESULT 2

US-09-193-562D-27  
; Sequence 27, Application US/09193562D  
; Patent No. 6309857

## ; GENERAL INFORMATION:

; APPLICANT: Pauli, Benedicht U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules

; FILE REFERENCE: 18617.0052

; CURRENT APPLICATION NUMBER: US/09/193,562D

; CURRENT FILING DATE: 1998-11-17

; PRIOR APPLICATION NUMBER: US/60/065,922

; PRIOR FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 27

; LENGTH: 3007

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-193-562D-27

Query Match 100.0%; Score 252; DB 4; Length 3007;  
Best Local Similarity 100.0%; Pred. No. 3.2e-76;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAAGAATTGTGTTAGTCTTGACAAATCTGGAAGCATGGCACTGGTAACCGCCTC 60  
Db 956 CAAGAATTGTGTTAGTCTTGACAAATCTGGAAGCATGGCACTGGTAACCGCCTC 1015  
QY 61 AATCGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTGG 120  
Db 1016 AATCGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTGG 1075  
QY 121 GTTGGGATGGTGACATTTGACAGTGTGCCCCATGTACAAAGTGAATCATACAGATAAAC 180  
Db 1076 GTTGGGATGGTGACATTTGACAGTGTGCCCCATGTACAAAGTGAATCATACAGATAAAC 1135  
QY 181 AGTGGCAGTGACAGGACACACTCGCCAAAGATTACCTGCAGCAGCTTCAGAGGGAGC 240  
Db 1136 AGTGGCAGTGACAGGACACACTCGCCAAAGATTACCTGCAGCAGCTTCAGAGGGAGC 1195  
QY 241 TCCATCTGCAGC 252  
Db 1196 TCCATCTGCAGC 1207

## RESULT 3

US-09-623-624-1

; Sequence 1, Application US/09623624

; Patent No. 6576434

## ; GENERAL INFORMATION:

; APPLICANT: Magainin Pharmaceuticals, Inc.

; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; FILE REFERENCE: 36870-5073-WO

; CURRENT APPLICATION NUMBER: US/09/623,624

; CURRENT FILING DATE: 2000-09-06

; PRIOR APPLICATION NUMBER: PCT/US99/04703

; PRIOR FILING DATE: 1999-03-03

; PRIOR APPLICATION NUMBER: US 08/697,360

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,419

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,440

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,471

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,471

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,472

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,473

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/702,105

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/702,110

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/702,168

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/980,872

; PRIOR FILING DATE: 1997-12-01

; NUMBER OF SEQ ID NOS: 18

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 1

; LENGTH: 2931

; TYPE: DNA

; ORGANISM: Mus musculus

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (8)..(2746)

US-09-623-624-1

Query Match 65.2%; Score 164.2; DB 4; Length 2931;  
Best Local Similarity 78.7%; Pred. No. 3.7e-46;  
Matches 196; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 1 CAAGAATTGTGTTAGTCTTGACAAATCTGGAAGCATGGCACTGGTAACCGCCTC 60  
Db 920 CAAGAATTGTGTTAGTCTTGACAAATCTGGAAGCATGGCACTGGTAACCGCCTC 979  
QY 61 AATCGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTGG 120  
Db 980 AATCGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTGG 1039  
QY 121 GTTGGGATGGTGACATTTGACAGTGTGCCCCATGTACAAAGTGAATCATACAGATAAAC 180  
Db 1040 GTTGGGATGGTGACATTTGACAGTGTGCCCCATGTACAAAGTGAATCATACAGATAAAC 1099  
QY 181 AGTGGCAGTGACAGGACACACTCGCCAAAGATTACCTGCAGCAGCTTCAGAGGGAGC 240  
Db 1100 AGTGGCAGTGACAGGACACACTCGCCAAAGATTACCTGCAGCAGCTTCAGAGGGAGC 1159  
QY 241 TCCATCTGC 249  
Db 1160 TCCATCTGC 1168

## RESULT 4

US-09-016-434-931

; Sequence 931, Application US/09016434

; Patent No. 6500938

## ; GENERAL INFORMATION:

; APPLICANT: Janice Au-Young

; APPLICANT: Jeffrey J. Seilhamer

;; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
;; TITLE OF INVENTION: PATHWAY GENE EXPRESSION

;; NUMBER OF SEQUENCES: 1490

;; CORRESPONDENCE ADDRESS:

;; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.

;; STREET: 3174 PORTER DRIVE

;; CITY: PALO ALTO

;; STATE: CALIFORNIA

;; COUNTRY: USA

;; ZIP: 94304

;; COMPUTER READABLE FORM:

;; MEDIUM TYPE: Floppy disk

;; COMPUTER: IBM PC compatible

;; OPERATING SYSTEM: PC-DOS/MS-DOS

;; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2

;; CURRENT APPLICATION DATA:

;; APPLICATION NUMBER: US/09/016,434

;; FILING DATE: HEREMITH

;; CLASSIFICATION:

;; PRIOR APPLICATION DATA:

;; APPLICATION NUMBER:

;; FILING DATE:

;; CLASSIFICATION:

;; ATTORNEY/AGENT INFORMATION:

;; NAME: Zeller, Karen J.

;; REGISTRATION NUMBER: 37,071

;; REFERENCE/DOCKET NUMBER: PA-0002 US

;; TELECOMMUNICATION INFORMATION:

;; TELEPHONE: (650) 855-0555

;; TELEFAX: (650) 845-4166

;; INFORMATION FOR SEQ ID NO: 931:

;; SEQUENCE CHARACTERISTICS:

;; LENGTH: 619 base pairs

;; TYPE: nucleic acid

;; STRANDEDNESS: single

;; TOPOLOGY: linear

;; IMMEDIATE SOURCE:

;; LIBRARY: COLNNOT05

;; CLONE: 775437

;; US-09-016-434-931

Query Match 55.6%; Score 140.2; DB 4; Length 619;

Best Local Similarity 72.7%; Pred. No. 2.8e-38;

Matches 181; Conservative 0; Mismatches 68; Indels 0; Gaps 0;

QY 1 CAAAGAATTGTGTTAGTCTTGTGCAAAATCTGGAAGCATGCGGACTGGTAACCCCTC 60

DB 166 CAAAGAATTGTGTTAGTCTTGTGCAAAATCTGGAAGCATGCGGACTGGTAACCCCTC 225

QY 61 AATCGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTCTGG 120

DB 226 AATCGAATGAATCAAGCAGCGCAAAACATTTCTGCTGCAGACTGTTGAAAATGATCCTGG 285

QY 121 GTTGGGATGGTGACATTTGACAGTGTGCCCCATGTACAAAGTGAACATCATACAGATAAAC 180

DB 286 GTGGGGATGGTTTCACTTTGATAGTACTGCGCACTATTGTAAATAAGCTAATCAAAATAAAA 345

QY 181 AGTGGCAGTGACAGGAGACACACTCGCCAAAAGATTACCTGCGAGCAGCTTCAGAGGGACG 240

DB 346 AGCAGTGATGAAGAAACACACTCATGCGAGGATTTACCTATATCTCTGGAGGAAC 405

QY 241 TCCATCTGC 249

DB 406 TCCATCTGC 414

RESULT 5

US-09-049-698-16

;; Sequence 16, Application US/09049698

;; Patent No. 6368792

;; GENERAL INFORMATION:

;; APPLICANT: BILLING-MEDEL, PATRICIA A.

;; APPLICANT: COHEN, MAURICE

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;;

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;; APPLICANT: COLPITTS, TRACEY L.

;; APPLICANT: FRIEDMAN, PAULA N.

;; APPLICANT: HAYDEN, MARK

;; APPLICANT: KLASS, MICHAEL R.

;; APPLICANT: ROBERTS-RAPP, LISA

;; APPLICANT: RUSSELL, JOHN C.

;; APPLICANT: STROUPE, STEPHEN D.

;; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE

;; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL

;; TITLE OF INVENTION: TRACT

;; NUMBER OF SEQUENCES: 51

;; CORRESPONDENCE ADDRESS:

;; ADDRESSEE: Abbott Laboratories

;; STREET: 100 Abbott Park Road

;; CITY: Abbott Park

;; STATE: IL

;; COUNTRY: USA

;; ZIP: 60064-3500

;; COMPUTER READABLE FORM:

;; MEDIUM TYPE: Diskette

;; COMPUTER: IBM Compatible

;; OPERATING SYSTEM: DOS

;; SOFTWARE: Fast-Seq for Windows Version 2.0

;; CURRENT APPLICATION DATA:

;; APPLICATION NUMBER: US/09/049,698

;; FILING DATE:

;; CLASSIFICATION:

;; PRIOR APPLICATION DATA:

;; APPLICATION NUMBER: 08/828,856

;; FILING DATE: 31-MAR-1997

;; ATTORNEY/AGENT INFORMATION:

;; NAME: Becker, Cheryl L.

;; REGISTRATION NUMBER: 35,441

;; REFERENCE/DOCKET NUMBER: 6068.US.P1

;; TELECOMMUNICATION INFORMATION:

;; TELEPHONE: 847/935-1729

;; TELEFAX: 847/938-2623

;; TELEX:

;; INFORMATION FOR SEQ ID NO: 16:

;; SEQUENCE CHARACTERISTICS:

;; LENGTH: 3043 base pairs

;; TYPE: nucleic acid

;; STRANDEDNESS: single

;; TOPOLOGY: linear

;; US-09-049-698-16

Query Match 55.6%; Score 140.2; DB 4; Length 3043;

Best Local Similarity 72.7%; Pred. No. 6.3e-38;

Matches 181; Conservative 0; Mismatches 68; Indels 0; Gaps 0;

QY 1 CAAAGAATTGTGTTAGTCTTGTGCAAAATCTGGAAGCATGCGGACTGGTAACCCCTC 60

DB 923 CAAAGAATTGTGTTAGTCTTGTGCAAAATCTGGAAGCATGCGGACTGGTAACCCCTC 982

QY 61 AATCGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTCTGG 120

DB 983 AATCGAATGAATCAAGCAGCGCAAAACATTTCTGCTGCAGACTGTTGAAAATGATCCTGG 1042

QY 121 GTTGGGATGGTGACATTTGACAGTGTGCCCCATGTACAAAGTGAACATCATACAGATAAAC 180

DB 1043 GTGGGGATGGTTTCACTTTGATAGTACTGCGCACTATTGTAAATAAGCTAATCAAAATAAAA 1102

QY 181 AGTGGCAGTGACAGGAGACACACTCGCCAAAAGATTACCTGCGAGCAGCTTCAGAGGGACG 240

DB 1103 AGCAGTGATGAAGAAACACACTCATGCGAGGATTTACCTATATCTCTGGAGGAAC 1162

QY 241 TCCATCTGC 249

DB 1163 TCCATCTGC 1171

RESULT 6

US-09-049-698-18

```
; Sequence 18, Application US/09049698
; Patent No. 6368792
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA A.
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: HAYDEN, MARK
; APPLICANT: KLASS, MICHAEL R.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/049,698
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/828,856
; FILING DATE: 31-MAR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6068.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3181 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-09-049-698-18

Query Match 55.6%; Score 140.2; DB 4; Length 3181;
Best Local Similarity 72.7%; Pred. No. 6.4e-38;
Matches 181; Conservative 0; Mismatches 68; Indels 0; Gaps 0;

QY 1 CAAGAATTGTGTTAGTCTTGCACAAATCTGGAAGCATGCGGACTGGTAACCGCTC 60
DB 934 CAAGAATTGTGTTAGTCTTGCACAAATCTGGAAGCATGCGGACTGGTAACCGCTC 993

QY 61 AATCGACTGAATCAAGCAGCGCGAGCTTTTCTGCTGCAGACAGTTGAGCTGGGCTCTGG 120
DB 994 AATCGAATGAATCAAGCAGCAAAACATTCTCTGCTGCAGACTGTTGAAATGATCTCTGG 1053

QY 121 GTTGGATCGTGACATTTGACAGTGTGCTCCCATGTACAAAGTGAATCATACAGATAAAC 180
DB 1054 GTGGGATGGTTCACCTTTCATAGTACTGCGCACTATTGTAATAAGCTAATCCAAATAAAA 1113

QY 181 AGTGGCAGTGACGGGACACACTCCCAAAAGATTACCTGCAGCAGCTTCAGAGGGAGC 240
DB 1114 AGCAGTGATGAAGAAACACACTCATGCGAGGATTACCTACATATCCCTCTGGGAGAACT 1173

QY 241 TCCATCTGC 249
DB 1117 TTTGC 1181

; US-09-049-698-18

RESULT 7
US-09-193-562D-33
; Sequence 33, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 33
; LENGTH: 3022
; TYPE: DNA
; ORGANISM: Mus musculus
; US-09-193-562D-33

Query Match 43.3%; Score 109; DB 4; Length 3022;
Best Local Similarity 65.3%; Pred. No. 3e-27;
Matches 160; Conservative 0; Mismatches 85; Indels 0; Gaps 0;

QY 5 GAATTGTGTTAGTCTTGCACAAATCTGGAAGCATGCGGACTGGTAACCGCTCAATC 64
DB 937 GAGTGTGTGCTTGTGCTGATATAATCTGGAAGCATGGAAGACCGCTCTTATTC 996

QY 65 GACTGAATCAAGCAGCGCGAGCTTTTCTGCTGCAGACAGTTGAGCTGGGCTCTGGTTG 124
DB 997 GAATGAATCAAGCAGCAGAACTGACTTAATCAAAATTTGGAAGAGAGTCTGGTTG 1056

QY 125 GGATGGTGACATTTGACAGTGTCTGCCCATGTACAAAGTGAATCATACAGATAAACAGTG 184
DB 1057 GATTAGTCACATTTGACAGAGCTGCCACATCCAAATTAATTAATAAATAACGAGTA 1116

QY 185 GCAGTGACAGGACACACTCCCAAAAGATTACCTGCAGCAGCTTCAGAGGGAGCTCCA 244
DB 1117 GTAGTGACTACCAAAAGATACCGCAACCTCCCAACAGCGCTTCTGTGGAATTCAA 1176

QY 245 TCTGC 249
DB 1177 TTTGC 1181

; US-09-049-698-4
; Sequence 4, Application US/09049698
; Patent No. 6368792
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA A.
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: HAYDEN, MARK
; APPLICANT: KLASS, MICHAEL R.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
```

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;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/049,698
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/828,856
; FILING DATE: 31-MAR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6068.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 237 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-09-049-698-4

Query Match 42.3%; Score 106.6; DB 4; Length 237;
Best Local Similarity 69.4%; Pred. No. 5.6e-27;
Matches 145; Conservative 0; Mismatches 64; Indels 0; Gaps 0;

QY 41 TGGCGACTGGTAACCGCCTCAATCGACTGAATCAAGCAGCGCCAGCTTTTCCTGCTGCAGA 100
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 101 CAGTTGAGCTGGGGTCTGGTGGATGGTGACATTTGACAGTGTGCCCATGTACAAA 160
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 161 GTGAACTATACAGATAACAGTGGCAGTGACAGGAGACACATCGCCAAAGATTAACCTG 220
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 121 ATAAGCTATCAATAAATAAAGCAGTGATGAAGAAACACATCATGGCAGGATACCTPA 180
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Query Match 41.8%; Score 105.4; DB 4; Length 3418;
Best Local Similarity 63.7%; Pred. No. 5.5e-26;
Matches 160; Conservative 0; Mismatches 91; Indels 0; Gaps 0;

US-09-193-562D-29
; Sequence 29, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 29
; LENGTH: 3418
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-193-562D-29

Query Match 41.2%; Score 103.8; DB 4; Length 3317;
Best Local Similarity 63.3%; Pred. No. 1.9e-25;
Matches 159; Conservative 0; Mismatches 92; Indels 0; Gaps 0;

US-09-193-562D-1
; Sequence 1, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 1
; LENGTH: 3317
; TYPE: DNA
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: sequence encoding Lu-ECAM-1 and Lu-ECAM-1 associated
; OTHER INFORMATION: protein from bovine endothelial cells
; US-09-193-562D-1

QY 1 CAAAGAAATGTGTGTTTAGTCTCTTGACAAATCTGGAAGCATGGCGACTGGTAACCGCCTC 60
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 61 AATCGACTGAATCAAGCAGGCCAGCTTTTCCTGCTGCACAGTTTGAGCTGGGGTCCCTG 120
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 991 TTTGCAATGAATCAAGCAGCAGAAATGTACTTGAATTTAAATTTGAAAGGATCCTTG 1050
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 121 GTTGGGATGGTGACATTTTGACAGTGTGCTCCCATGTGCAAAAGTGAATCTACAGATAAAC 180
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 1051 GTTGGGTTGGTCACATTTGACAGTTTGTCTAAATCCAAAGTAAGCTCATAAAATAATT 1110
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 181 AGTGCAGTGACAGGACACACTCCGCCAAAAGATTACCTGACAGAGCTTCAGAGGGAGC 240
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 1111 GATGATAACACTTACCAAAAGATCACTGCAAAACCTGCCTCAAGAAAGCTGATGGTGCACT 1170
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 241 TCCATCTGCAG 251
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 1171 TCAATTTGCAG 1181
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 10
US-09-193-562D-1
; Sequence 1, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 1
; LENGTH: 3317
; TYPE: DNA
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: sequence encoding Lu-ECAM-1 and Lu-ECAM-1 associated
; OTHER INFORMATION: protein from bovine endothelial cells
; US-09-193-562D-1

QY 1 CAAAGAAATGTGTGTTTAGTCTCTTGACAAATCTGGAAGCATGGCGACTGGTAACCGCCTC 60
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 61 AATCGACTGAATCAAGCAGGCCAGCTTTTCCTGCTGCACAGTTTGAGCTGGGGTCCCTG 120
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 1041 TTTCAAAATGAATCAAGCAGCAGAACTATACTTGAATTTAAATTTGAAAGGATCCTTTA 1100
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 121 GTTGGGATGGTGACATTTTGACAGTGTGCTCCCATGTGCAAAAGTGAATCTACAGATAAAC 180
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 1101 GTTGGGATGGTTACATTTGACAGTGTGCTGAAATCCAAAGTAAATCAACAGATAACT 1160
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 181 AGTGCAGTGACAGGACACACTCCGCCAAAAGATTACCTGACAGAGCTTCAGAGGGAGC 240
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 1161 GATGATAATGTTTACCAAAAGATCACTGCAAAACCTGCCTCAAGTAGTAGTAATGGTGA 1220
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 241 TCCATCTGCAG 251
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 1221 TCAATTTGCAG 1231
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 11
US-09-643-597-358
; Sequence 358, Application US/09643597
; Patent No. 6426072
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QY      242 CCATCTGCA 250
      |||||
Db      1242 ACATCAGCA 1250

RESULT 14
US-09-542-615A-168
; Sequence 168, Application US/09542615A
; Patent No. 6518256
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy A.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
; FILE REFERENCE: 210121.455C8
; CURRENT APPLICATION NUMBER: US/09/542,615A
; CURRENT FILING DATE: 2000-04-14
; NUMBER OF SEQ ID NOS: 350
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 168
; LENGTH: 2784
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-542-615A-168

Query Match      21.3%; Score 53.8; DB 4; Length 2784;
Best Local Similarity 51.0%; Pred. No. 2.3e-08;
Matches 127; Conservative 0; Mismatches 122; Indels 0; Gaps 0;

QY      2 AAAGAATTGTTAGTCTTGACAAATCTGGAAAGCATGGCGACTGGTAACCGCTCA 61
      |||||
Db      1002 ACAAAAGTGTCTGTTAGTCTTGATGCTGCCAGCAAGATGGCAGAGGCTGACAGACTCC 1061

QY      62 ATCGACTGAATCAAGCAGCGCCAGCTTTCTCTGTCGACAGATTTGAGCTGGGGTCTCTGGG 121
      |||||
Db      1062 TTCAACTACACAAAGCCGCGAGATTTATTTGATGAGATTTGTGAATTCATACCTTCG 1121

QY      122 TTGGGATGTGACATTTGACAGTGTGCTGCCCATGTACAAAAGTGAACCTACATACAGATAAACA 181
      |||||
Db      1122 TGGGCATTGCCAGTTTTCGACAGAAAGGAGAGATCAGAGCCCGAGCTACACCAAAATTAACA 1181

QY      182 GTGGCAGTCACAGGGGACACACTCGCCAAAAGATTACCTGCAGCAGCTTCAGGAGGAGCGT 241
      |||||
Db      1182 GCAATGATGATCGAAAGTTGCTGGTTTCATATCTGCCCCACCACTGTATCAGCTAAAAACAG 1241

QY      242 CCATCTGCA 250
      |||||
Db      1242 ACATCAGCA 1250

Search completed: April 24, 2004, 05:01:03
Job time : 24.1639 secs

QY      242 CCATCTGCA 250
      |||||
Db      1242 ACATCAGCA 1250

RESULT 15
US-09-606-421B-168
; Sequence 168, Application US/09606421B
; Patent No. 6531315
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.455C9
; CURRENT APPLICATION NUMBER: US/09/606,421B
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**This Page Blank (uspto)**



GenCore version 5.1.1.6  
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OM nucleic - protein search, using frame\_plus\_n2p model

Run on: April 21, 2004, 16:13:49 ; Search time 36.2806 Seconds  
(without alignments)  
3840.718 Million cell updates/sec

Title: US-09-049-696-6

Perfect score: 455

Sequence: 1 CAAGAATTGTGTTTGTAGT.....GAGGACGTCCTCATCTGCAGC 252

Scoring table: BLOSUM62

Xgapop 10.0 , Xgapext 0.5  
Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 1133595 seqs, 276475211 residues

Total number of hits satisfying chosen parameters: 2267190

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-DB=Published\_Applications\_AA -QWrt=fastan -SUFFIX=n2p.rapb -MINMATCH=0.1

-LOOPCL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62

-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100

-THR MIN=0 -ALIGN=5 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0

-MAXLEN=2000000000 -USER=US09049696 @Cgn 1.139 @runat\_21042004\_154838\_21265

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-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Published Applications AA:

- 1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep.\*
- 5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pep.\*
- 6: /cgn2\_6/ptodata/2/pubpaa/PCTUS\_PUBCOMB.pep.\*
- 7: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep.\*
- 8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep.\*
- 9: /cgn2\_6/ptodata/2/pubpaa/US09A\_PUBCOMB.pep.\*
- 10: /cgn2\_6/ptodata/2/pubpaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB.pep.\*
- 13: /cgn2\_6/ptodata/2/pubpaa/US10A\_PUBCOMB.pep.\*
- 14: /cgn2\_6/ptodata/2/pubpaa/US10B\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pep.\*
- 17: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

\*  
Result Query  
No. Score Match Length DB ID Description

1	418	91.9	869	14	US-10-106-698-6388	Sequence 6388, Ap
2	418	91.9	914	9	US-09-823-356-8	Sequence 8, Appli
3	418	91.9	914	9	US-09-922-217-1066	Sequence 1066, Ap
4	418	91.9	914	9	US-09-833-263-1066	Sequence 1066, Ap
5	418	91.9	914	9	US-09-981-353-192	Sequence 192, App
6	418	91.9	914	11	US-09-833-245-2054	Sequence 2054, Ap
7	418	91.9	914	13	US-10-025-380-1066	Sequence 1066, Ap
8	418	91.9	914	14	US-10-055-412B-28	Sequence 28, Appl
9	418	91.9	914	14	US-10-270-595-6	Sequence 6, Appli
10	418	91.9	914	14	US-10-235-994-36	Sequence 26, Appl
11	418	91.9	914	14	US-10-060-255-42	Sequence 42, Appl
12	418	91.9	914	15	US-10-369-214-133	Sequence 133, App
13	418	91.9	925	9	US-09-764-868-635	Sequence 635, App
14	418	91.9	925	14	US-10-106-698-6248	Sequence 6248, Ap
15	330	72.5	913	14	US-10-270-595-2	Sequence 2, Appli
16	330	72.5	913	15	US-10-369-214-132	Sequence 132, App
17	268	58.9	917	9	US-09-981-353-54	Sequence 54, Appl
18	268	58.9	917	13	US-10-025-167-41	Sequence 41, Appl
19	268	58.9	917	14	US-10-235-994-16	Sequence 16, Appl
20	268	58.9	917	14	US-10-345-680-32	Sequence 32, Appl
21	268	58.9	917	15	US-10-369-214-134	Sequence 134, App
22	268	58.9	917	15	US-10-087-080-34	Sequence 34, Appl
23	268	58.9	919	9	US-09-989-723-379	Sequence 379, App
24	268	58.9	919	9	US-09-989-723-379	Sequence 379, App
25	268	58.9	919	9	US-09-989-723-379	Sequence 379, App
26	268	58.9	919	9	US-09-989-727-379	Sequence 379, App
27	268	58.9	919	9	US-09-989-731-379	Sequence 379, App
28	268	58.9	919	9	US-09-989-732-379	Sequence 379, App
29	268	58.9	919	9	US-09-991-073-379	Sequence 379, App
30	268	58.9	919	9	US-09-990-442-379	Sequence 379, App
31	268	58.9	919	9	US-09-991-163-379	Sequence 379, App
32	268	58.9	919	9	US-09-993-604-379	Sequence 379, App
33	268	58.9	919	9	US-09-990-456-379	Sequence 379, App
34	268	58.9	919	9	US-09-989-721-379	Sequence 379, App
35	268	58.9	919	9	US-09-992-598-379	Sequence 379, App
36	268	58.9	919	9	US-09-989-735-379	Sequence 379, App
37	268	58.9	919	9	US-09-990-444-379	Sequence 379, App
38	268	58.9	919	9	US-09-991-181-379	Sequence 379, App
39	268	58.9	919	9	US-09-989-730-379	Sequence 379, App
40	268	58.9	919	9	US-09-990-436-379	Sequence 379, App
41	268	58.9	919	9	US-09-993-687-379	Sequence 379, App
42	268	58.9	919	10	US-09-989-734-379	Sequence 379, App
43	268	58.9	919	10	US-09-997-653-379	Sequence 379, App
44	268	58.9	919	10	US-09-993-667-379	Sequence 379, App
45	268	58.9	919	10	US-09-993-667-379	Sequence 379, App

ALIGNMENTS

RESULT 1

US-10-106-698-6388  
; Sequence 6388, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:

; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ IDS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 6388  
; LENGTH: 869

; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: MISC\_FEATURE

LOCATION: (14)  
OTHER INFORMATION: xaa equals any of the naturally occurring L-amino acids  
US-10-106-698-6388

Alignment Scores:  
Pred. No.: 9,42e-43 Length: 869  
Score: 418.00 Matches: 84  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 91.87% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-6 (1-252) x US-10-106-698-6388 (1-869)

QY 1 CAAGAATTGCTGTTTAGTCTCTGACAAATCTGGAAGCATGCGACTGGTAAACCGCCTC 60  
DB 259 GlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGlyAsnArgLeu 278  
QY 61 AATCGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGTCCTGG 120  
DB 279 AsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeuGlySerTrp 298  
QY 121 GTTGGATGGTGACATTTGACAGTGTGCTGCCATGTACAAAGTGAATCATACAGATAAAC 180  
DB 299 ValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIleGlnIleAsn 318  
QY 181 ACTGCGAGTGACAGGACACACTCCGCAAAAGATTACCTGCAGCAGCTTCAGAGGGGACG 240  
DB 319 SerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSerGlyGlyThr 338  
QY 241 TCCATCTGCAGC 252  
DB 339 SerIleCysSer 342

## RESULT 2

US-09-823-356-8  
Sequence 8, Application US/09823356  
Patent No. US20010025098A1  
GENERAL INFORMATION:  
APPLICANT: Tang, Y. Tom  
APPLICANT: Bandman, Olga  
APPLICANT: Lal, Preeti  
APPLICANT: Hillman, Jennifer L.  
APPLICANT: Yue, Henry  
APPLICANT: Corley, Neil C.  
APPLICANT: Guegler, Karl J.  
APPLICANT: Kaser, Matthew R.  
APPLICANT: Baughn, Mariah R.  
APPLICANT: Shah, Purvi  
TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
FILE REFERENCE: PF-0489-1 CON  
CURRENT APPLICATION NUMBER: US/09/823,356  
CURRENT FILING DATE: 2001-03-30  
PRIOR APPLICATION NUMBER: 09/039,307  
PRIOR FILING DATE: 1998 March 13  
NUMBER OF SEQ ID NOS: 34  
SOFTWARE: PERL Program  
SEQ ID NO 8  
LENGTH: 914  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc feature  
OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775  
US-09-823-356-8

Alignment Scores:  
Pred. No.: 9,53e-43 Length: 914  
Score: 418.00 Matches: 84  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 91.87% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-6 (1-252) x US-09-823-356-8 (1-914)

QY 1 CAAGAATTGCTGTTTAGTCTCTGACAAATCTGGAAGCATGCGACTGGTAAACCGCCTC 60  
DB 304 GlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGlyAsnArgLeu 323  
QY 61 AATCGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGTCCTGG 120  
DB 324 AsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeuGlySerTrp 343  
QY 121 GTTGGATGGTGACATTTGACAGTGTGCTGCCATGTACAAAGTGAATCATACAGATAAAC 180  
DB 344 ValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIleGlnIleAsn 363  
QY 181 ACTGCGAGTGACAGGACACACTCCGCAAAAGATTACCTGCAGCAGCTTCAGAGGGGACG 240  
DB 364 SerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSerGlyGlyThr 383  
QY 241 TCCATCTGCAGC 252  
DB 384 SerIleCysSer 387

## RESULT 3

US-09-922-217-1066  
Sequence 1066, Application US/09922217  
Patent No. US20020076414A1  
GENERAL INFORMATION:  
APPLICANT: Xu, Jiangchun  
APPLICANT: Lodes, Michael J.  
APPLICANT: Secrist, Heather  
APPLICANT: Benson, Darin R.  
APPLICANT: Meagher, Madeleine Joy  
APPLICANT: Stolk, John A.  
APPLICANT: Wang, Tongtong  
APPLICANT: Jiang, Yugu  
APPLICANT: Smith, Carole Lynn  
APPLICANT: King, Gordon E.  
APPLICANT: Wang, Aijun  
APPLICANT: Clapper, Jonathan D.  
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
FILE REFERENCE: 210121.471C13  
CURRENT APPLICATION NUMBER: US/09/922,217  
CURRENT FILING DATE: 2001-08-03  
NUMBER OF SEQ ID NOS: 1124  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 1066  
LENGTH: 914  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-922-217-1066

Alignment Scores:  
Pred. No.: 9,53e-43 Length: 914  
Score: 418.00 Matches: 84  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 91.87% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-6 (1-252) x US-09-922-217-1066 (1-914)

QY 1 CAAGAATTGCTGTTTAGTCTCTGACAAATCTGGAAGCATGCGACTGGTAAACCGCCTC 60  
DB 304 GlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGlyAsnArgLeu 323  
QY 61 AATCGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGTCCTGG 120  
DB 324 AsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeuGlySerTrp 343  
QY 121 GTTGGATGGTGACATTTGACAGTGTGCTGCCATGTACAAAGTGAATCATACAGATAAAC 180

Db 344 ValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIleGlnIleAsn 363  
QY 181 AGTCGAGTGACAGGACACTCGCCAAAGATTACCTGCAGCAGCTTCAGAGGAGCG 240  
Db 364 SerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSerGlyGlyThr 383  
QY 241 TCCATCTGCAGC 252  
Db 384 SerIleCysSer 387

## RESULT 4

US-09-833-263-1066  
; Sequence 1066 Application US/09833263  
; Patent No. US20020110547A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Stolk, John A.  
; APPLICANT: Meagher, Madeleine J.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND  
; FILE REFERENCE: 210121.471C12  
; CURRENT APPLICATION NUMBER: US/09/833,263  
; CURRENT FILING DATE: 2001-04-10  
; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 1066  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-833-263-1066

Alignment Scores:  
Pred. No.: 9,53e-43 Length: 914  
Score: 418.00 Matches: 84  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 91.87% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-6 (1-252) x US-09-833-263-1066 (1-914)

QY 1 CAAAGATTGTGTGTTAGTCTTGCACAAATCTGGAAGCATGGCGACTGGTAACCGCCTC 60  
Db 304 GlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGlyAsnArgLeu 323  
QY 61 AATCGACTGAATCAAGCAGCGCAGCTTTCTCTGCTGCACAGCTTGAGCTGGGTCTCTGG 120  
Db 324 AsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuGlnThrValGluLeuGlySerTrp 343  
QY 121 GTTGGATGGTGACATTTGACAGTGTGCTGCCATGTACAAAGTGAACCTACACAGATAAAC 180  
Db 344 ValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIleGlnIleAsn 363  
QY 181 AGTCGAGTGACAGGACACTCGCCAAAGATTACCTGCAGCAGCTTCAGAGGAGCG 240  
Db 364 SerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSerGlyGlyThr 383  
QY 241 TCCATCTGCAGC 252  
Db 384 SerIleCysSer 387

## RESULT 5

US-09-981-353-192  
; Sequence 192 Application US/09981353  
; Patent No. US20020160382A1  
; GENERAL INFORMATION:  
; APPLICANT: Lasek, Amy W.  
; APPLICANT: Jones, David A.  
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
; FILE REFERENCE: PA-0038 US  
; CURRENT APPLICATION NUMBER: US/09/981,353  
; CURRENT FILING DATE: 2001-10-11

; NUMBER OF SEQ ID NOS: 194  
; SOFTWARE: PERL Program  
; SEQ ID NO 192  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CD1  
US-09-981-353-192

Alignment Scores:  
Pred. No.: 9,53e-43 Length: 914  
Score: 418.00 Matches: 84  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 91.87% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-6 (1-252) x US-09-981-353-192 (1-914)

QY 1 CAAAGATTGTGTGTTAGTCTTGCACAAATCTGGAAGCATGGCGACTGGTAACCGCCTC 60  
Db 304 GlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGlyAsnArgLeu 323  
QY 61 AATCGACTGAATCAAGCAGCGCAGCTTTCTCTGCTGCACAGCTTGAGCTGGGTCTCTGG 120  
Db 324 AsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuGlnThrValGluLeuGlySerTrp 343  
QY 121 GTTGGATGGTGACATTTGACAGTGTGCTGCCATGTACAAAGTGAACCTACACAGATAAAC 180  
Db 344 ValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIleGlnIleAsn 363  
QY 181 AGTCGAGTGACAGGACACTCGCCAAAGATTACCTGCAGCAGCTTCAGAGGAGCG 240  
Db 364 SerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSerGlyGlyThr 383  
QY 241 TCCATCTGCAGC 252  
Db 384 SerIleCysSer 387

## RESULT 6

US-09-833-245-2054  
; Sequence 2054 Application US/09833245  
; Publication No. US20040010134A1  
; GENERAL INFORMATION:  
; APPLICANT: Human Genome Sciences, Inc.  
; TITLE OF INVENTION: Albumin Fusion Proteins  
; FILE REFERENCE: PFS46PCT  
; CURRENT APPLICATION NUMBER: US/09/833,245  
; CURRENT FILING DATE: 2001-04-12  
; PRIOR APPLICATION NUMBER: 60/229,358  
; PRIOR FILING DATE: 2000-04-12  
; PRIOR APPLICATION NUMBER: 60/256,931  
; PRIOR FILING DATE: 2000-12-21  
; PRIOR APPLICATION NUMBER: 60/199,384  
; PRIOR FILING DATE: 2000-04-25  
; NUMBER OF SEQ ID NOS: 2267  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 2054  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-833-245-2054

Alignment Scores:  
Pred. No.: 9,53e-43 Length: 914  
Score: 418.00 Matches: 84  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 91.87% Indels: 0  
DB: 11 Gaps: 0

US-09-049-696-6 (1-252) x US-09-833-245-2054 (1-914)

QY 1 CAAGAATTGTGTTAGTCTTGACAAATCTGGAAGCATGGCAGCTGGTAACCGCTC 60  
DB GlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGlyAsnArgLeu 323  
QY 61 AATCGACTGAATCAAGCAGCCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTGG 120  
DB AsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuGlnThrValGluLeuGlySerTrp 343  
QY 121 GTTGGATGTCACATTTGACAGTGTGCCATGTACAAAGTGAAGTCAATACAGATAAAC 180  
DB ValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIleGlnIleAsn 363  
QY 181 AGTGCAGTGACAGGACACACTCCCAAAAGATTACCTGCAGCAGCTTCAGGAGGAGC 240  
DB SerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaAlaSerGlyGlyThr 383  
QY 241 TCCATCTGCAGC 252  
DB SerIleCysSer 387

## RESULT 7

US-10-025-380-1066  
; Sequence 1066, Application US/10025380  
; Publication No. US20020182191A1

## GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Yugu  
; APPLICANT: Smith, Carole L.  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Skeiky, Yasir A. W.  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Vedwick Thomas S.  
; APPLICANT: Carter, Darrick  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; FILE REFERENCE: 210121.471C14  
; CURRENT APPLICATION NUMBER: US/10/025,380  
; CURRENT FILING DATE: 2001-12-19  
; NUMBER OF SEQ ID NOS: 1129  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1066  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens

US-10-025-380-1066

Alignment Scores:  
Pred. No.: 9,53e-43 Length: 914  
Score: 418.00 Matches: 84  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 91.87% Indels: 0  
DB: 13 Gaps: 0

US-09-049-696-6 (1-252) x US-10-025-380-1066 (1-914)

QY 1 CAAGAATTGTGTTAGTCTTGACAAATCTGGAAGCATGGCAGCTGGTAACCGCTC 60  
DB GlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGlyAsnArgLeu 323  
QY 61 AATCGACTGAATCAAGCAGCCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTGG 120  
DB AsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuGlnThrValGluLeuGlySerTrp 343

QY 121 GTTGGATGTCACATTTGACAGTGTGCCATGTACAAAGTGAAGTCAATACAGATAAAC 180  
DB ValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIleGlnIleAsn 363  
QY 181 AGTGCAGTGACAGGACACACTCCCAAAAGATTACCTGCAGCAGCTTCAGGAGGAGC 240  
DB SerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaAlaSerGlyGlyThr 383  
QY 241 TCCATCTGCAGC 252  
DB SerIleCysSer 387

## RESULT 8

US-10-055-412B-28  
; Sequence 28, Application US/10055412B  
; Publication No. US20030059861A1

## GENERAL INFORMATION:

; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 28  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens

US-10-055-412B-28

Alignment Scores:  
Pred. No.: 9,53e-43 Length: 914  
Score: 418.00 Matches: 84  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 91.87% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-6 (1-252) x US-10-055-412B-28 (1-914)

QY 1 CAAGAATTGTGTTAGTCTTGACAAATCTGGAAGCATGGCAGCTGGTAACCGCTC 60  
DB GlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGlyAsnArgLeu 323  
QY 61 AATCGACTGAATCAAGCAGCCAGCTTTTCTGCTGCAGACAGTTGAGCTGGGGTCTGG 120  
DB AsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuGlnThrValGluLeuGlySerTrp 343  
QY 121 GTTGGATGTCACATTTGACAGTGTGCCATGTACAAAGTGAAGTCAATACAGATAAAC 180  
DB ValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIleGlnIleAsn 363  
QY 181 AGTGCAGTGACAGGACACACTCCCAAAAGATTACCTGCAGCAGCTTCAGGAGGAGC 240  
DB SerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaAlaSerGlyGlyThr 383  
QY 241 TCCATCTGCAGC 252  
DB SerIleCysSer 387

## RESULT 9

US-10-270-595-6  
; Sequence 6, Application US/10270595  
; Publication No. US20030078409A1

## GENERAL INFORMATION:

; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; FILE REFERENCE: Atopic Allergies, Including Asthma and Related

; TITLE OF INVENTION: Disorders
; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/10/270,595
; CURRENT FILING DATE: 2002-10-16
; PRIOR APPLICATION NUMBER: US/09/623,624
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-270-595-6

Alignment Scores:
Pred. No.: 9,53e-43 Length: 914
Score: 418.00 Matches: 84
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 91.87% Indels: 0
DB: 14 Gaps: 0

US-09-049-696-6 (1-252) x US-10-270-595-6 (1-914)
QY 1 CAAAGAAATGTTGTTAGTCTTGCCTTGAACAATCTGGAGCATGCGACTGTTAACCCGCTC 60
Db 304 GlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGlyAsnArgLeu 323
QY 61 AATCGACTGAATCAACAGCCAGCTTTTCCTCTGCTGCAGACAGTTGAGCTGGGGTCTGG 120
Db 324 AsnArgLeuAsnGlnAlaGlyGlnPheLeuGlnThrValGluLeuGlySerTrp 343
QY 121 GTTGGATGTTGACATTTGACAGTGTGCCCATGTACAAAGTGAACATCATACAGATAAAC 180
Db 344 ValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIleGlnIleAsn 363
QY 181 AGTGGCAGTGACAGGACACACTCGCCAAAGAAAGATTACCTGCAGCAGCTTCAGGAGGACG 240
Db 364 SerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaLaserGlyGlyThr 383
QY 241 TCCATCTGCAGC 252
Db 384 SerIleCysSer 387

RESULT 10
US-10-235-994-26
; Sequence 26, Application US/10235994
; Publication No. US20030101002A1
; GENERAL INFORMATION:
; APPLICANT: Bartha, Gabor
; APPLICANT: Walker, Michael
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS
; FILE REFERENCE: ICYTP012
; CURRENT APPLICATION NUMBER: US/10/235,994

; CURRENT FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: US/10/003,608
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,081
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Human
US-10-235-994-26

Alignment Scores:
Pred. No.: 9,53e-43 Length: 914
Score: 418.00 Matches: 84
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 91.87% Indels: 0
DB: 14 Gaps: 0

US-09-049-696-6 (1-252) x US-10-235-994-26 (1-914)
QY 1 CAAAGAAATGTTGTTAGTCTTGCCTTGAACAATCTGGAGCATGCGACTGTTAACCCGCTC 60
Db 304 GlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGlyAsnArgLeu 323
QY 61 AATCGACTGAATCAACAGCCAGCTTTTCCTCTGCTGCAGACAGTTGAGCTGGGGTCTGG 120
Db 324 AsnArgLeuAsnGlnAlaGlyGlnPheLeuGlnThrValGluLeuGlySerTrp 343
QY 121 GTTGGATGTTGACATTTGACAGTGTGCCCATGTACAAAGTGAACATCATACAGATAAAC 180
Db 344 ValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIleGlnIleAsn 363
QY 181 AGTGGCAGTGACAGGACACACTCGCCAAAGAAAGATTACCTGCAGCAGCTTCAGGAGGACG 240
Db 364 SerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaLaserGlyGlyThr 383
QY 241 TCCATCTGCAGC 252
Db 384 SerIleCysSer 387

RESULT 11
US-10-060-255-42
; Sequence 42, Application US/10060255
; Publication No. US20030113840A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 25 Human secreted proteins
; FILE REFERENCE: P2042P1
; CURRENT APPLICATION NUMBER: US/10/060,255
; CURRENT FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: 09/781,417
; PRIOR FILING DATE: 2001-02-13
; PRIOR APPLICATION NUMBER: PCT/US00/22325
; PRIOR FILING DATE: 2000-08-16
; PRIOR APPLICATION NUMBER: 60/149,182
; PRIOR FILING DATE: 1999-08-17
; NUMBER OF SEQ ID NOS: 86
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 42
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-060-255-42

Alignment Scores:
Pred. No.: 9,53e-43 Length: 914
Score: 418.00 Matches: 84
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 91.87% Indels: 0

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DB: 14 Gaps: 0
US-09-049-696-6 (1-252) x US-10-060-255-42 (1-914)
QY 1 CAAAGAAATGTGTGTTAGTCTTGACAAATCTGGAGCATGGCGACTGGTAACCGCCTC 60
DB 304 GlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGlyAsnArgLeu 323
QY 61 AATCGACTCAATCAACGAGCCAGCTTTCTCGTGCACACAGTTCAGCTGGGTCCCTGG 120
DB 324 AsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGlnLeuGlySerTrp 343
QY 121 GTTGGGATCGTGCACATTTGACAGTGTGCCCTATGTACAAAGTCAACTCATACAGATAAAC 180
DB 344 ValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuGlnIleAsn 363
QY 181 AGTGGCAGTGACAGGACACACTCGCCAAAGATTAACCTGCGACGCTTCAGAGGGAGC 240
DB 364 SerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSerGlyGlyThr 383
QY 241 TCCATCTGCAGC 252
DB 384 SerIleCysSer 387
RESULT 12
US-10-369-214-133
; Sequence 133, Application US/10369214
; Publication No. US20030232037A1
; GENERAL INFORMATION:
; APPLICANT: Groot, Pieter C.
; APPLICANT: Bergenhenegouwen van, Bram J.
; APPLICANT: Oosterhout van, Antoon J.M.
; TITLE OF INVENTION: Genes involved in immune related responses observed
; TITLE OF INVENTION: with asthma
; FILE REFERENCE: P53837US00
; CURRENT APPLICATION NUMBER: US/10/369,214
; PRIOR FILING DATE: 2003-02-15
; PRIOR APPLICATION NUMBER: EP 0202867.8
; PRIOR FILING DATE: 2000-08-16
; PRIOR APPLICATION NUMBER: PCT/NL01/00610
; PRIOR FILING DATE: 2001-08-16
; NUMBER OF SEQ ID NOS: 139
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 133
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1)..(914)
; OTHER INFORMATION: /note="Human CLCA1"
US-10-369-214-133
Alignment Scores:
Pred. No.: 9,53e-43 Length: 914
Score: 418.00 Matches: 84
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 91.87% Indels: 0
DB: 15 Gaps: 0
US-09-049-696-6 (1-252) x US-10-369-214-133 (1-914)
QY 1 CAAAGAAATGTGTGTTAGTCTTGACAAATCTGGAGCATGGCGACTGGTAACCGCCTC 60
DB 304 GlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGlyAsnArgLeu 323
QY 61 AATCGACTCAATCAACGAGCCAGCTTTCTCGTGCACACAGTTCAGCTGGGTCCCTGG 120
DB 324 AsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGlnLeuGlySerTrp 343
QY 121 GTTGGGATCGTGCACATTTGACAGTGTGCCCTATGTACAAAGTCAACTCATACAGATAAAC 180
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DB 344 ValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuGlnIleAsn 363
QY 181 AGTGGCAGTGACAGGACACACTCGCCAAAGATTAACCTGCGACGCTTCAGAGGGAGC 240
DB 364 SerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSerGlyGlyThr 383
QY 241 TCCATCTGCAGC 252
DB 384 SerIleCysSer 387
RESULT 13
US-09-764-868-635
; Sequence 635, Application US/09764868
; Patent No. US20020168711A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT232
; CURRENT APPLICATION NUMBER: US/09/764,868
; PRIOR FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1510
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 635
; LENGTH: 925
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-764-868-635
Alignment Scores:
Pred. No.: 9,56e-43 Length: 925
Score: 418.00 Matches: 84
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 91.87% Indels: 0
DB: 9 Gaps: 0
US-09-049-696-6 (1-252) x US-09-764-868-635 (1-925)
QY 1 CAAAGAAATGTGTGTTAGTCTTGACAAATCTGGAGCATGGCGACTGGTAACCGCCTC 60
DB 315 GlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGlyAsnArgLeu 334
QY 61 AATCGACTCAATCAACGAGCCAGCTTTCTCGTGCACAGCTTCAGCTGGGTCCCTGG 120
DB 335 AsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGlnLeuGlySerTrp 354
QY 121 GTTGGGATCGTGCACATTTGACAGTGTGCCCTATGTACAAAGTCAACTCATACAGATAAAC 180
DB 355 ValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuGlnIleAsn 374
QY 181 AGTGGCAGTGACAGGACACACTCGCCAAAGATTAACCTGCGACGCTTCAGAGGGAGC 240
DB 375 SerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSerGlyGlyThr 394
QY 241 TCCATCTGCAGC 252
DB 395 SerIleCysSer 398
RESULT 14
US-10-106-698-6248
; Sequence 6248, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides
; FILE REFERENCE: PA005P1
; CURRENT APPLICATION NUMBER: US/10/106,698
; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
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;  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 6248  
; LENGTH: 925  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-106-698-6248

Alignment Scores:  
Pred. No.: 9 56e-43 Length: 925  
Score: 418.00 Matches: 84  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 91.87% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-6 (1-252) x US-10-106-698-6248 (1-925)

QY 1 CAAGAATTGTGTGTTAGTCTTGAACAATCTGGAAGCATGCGACTGGTAACCCGCTC 60  
Db 315 GlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGlyAsnArgLeu 334  
QY 61 AATCGACTGAATCAAGCAGCCAGCTTTTCCTCTGCGACAGCTTGGGCTCTGG 120  
Db 335 AsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuGlnThrValGluLeuGlySerTrp 354  
QY 121 GTTGGATGTCGACATTTGACAGTGTGCTGCCATGTACAAAGTGAACATCATACAGATAAAC 180  
Db 355 ValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuLeuGlnIleAsn 374  
QY 181 AGTGGCAGTGACAGGACACACTCGCCAAAAGATTACCTGCGACGACTTCAGGAGGAGCG 240  
Db 375 SerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSerGlyGlyThr 394  
QY 241 TCATCTGCAGC 252  
Db 395 SerIleCysSer 398

RESULT 15  
US-10-270-595-2  
; Sequence 2, Application US/10270595  
; Publication No. US20030078409A1  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; CURRENT FILING DATE: 2002-10-16  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; Remaining Prior Application data removed - See File Wrapper or PALM.

;  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2  
; LENGTH: 913  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-10-270-595-2

Alignment Scores:  
Pred. No.: 8 37e-32 Length: 913  
Score: 330.00 Matches: 65  
Percent Similarity: 86.90% Conservative: 8  
Best Local Similarity: 77.38% Mismatches: 11  
Query Match: 72.53% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-6 (1-252) x US-10-270-595-2 (1-913)

QY 1 CAAGAATTGTGTGTTAGTCTTGAACAATCTGGAAGCATGCGACTGGTAACCCGCTC 60  
Db 305 GlnArgIleValCysLeuValLeuAspLysSerGlySerMetLeuAsnAspArgLeu 324  
QY 61 AATCGACTGAATCAAGCAGCCAGCTTTTCCTCTGCGACAGCTTGGGCTCTGG 120  
Db 325 AsnArgMetAsnGlnAlaSerArgLeuPheLeuGlnThrValGluGlnGlySerTrp 344  
QY 121 GTTGGATGTCGACATTTGACAGTGTGCTGCCATGTACAAAGTGAACATCATACAGATAAAC 180  
Db 345 ValGlyMetValThrPheAspSerAlaAlaIleValGlnSerGluLeuLysGlnLeuAsn 364  
QY 181 AGTGGCAGTGACAGGACACACTCGCCAAAAGATTACCTGCGACGACTTCAGGAGGAGCG 240  
Db 365 SerGlyAlaAspArgAspLeuLeuIleLysHisLeuProThrValSerAlaGlyGlyThr 384  
QY 241 TCATCTGCAGC 252  
Db 385 SerIleCysSer 388

Search completed: April 21, 2004, 16:38:49  
Job time : 39.2806 secs

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QY 61 AATCGACTGAATCAAGCAGCCAGCTTTTCCTGCTGCACACAGTTGAGTGGGGTCTCG 120
Db 325 AsnArgMetAsnGlnAlaSerArgLeuLeuGlnThrValGluGlnGlySerTrp 344
QY 121 GTTGGGATGTCACATTTGACAGTGTGCTGCCCATGTACAAAGTGAATCATACAGATAAAC 180
Db 345 ValGlyMetValThrPheAspSerAlaAlaValGlnSerGluLeuLysGlnLeuAsn 364
QY 181 ACTGCAGTGCAGGAGCAGCTCGCCAAAGATTAATCTGCAGCAGCTTCAGAGGGAGC 240
Db 365 SerGlyAlaAspArgAspLeuLeuLysHisLeuProThrValSerAlaGlyGlyThr 384
QY 241 TCCATCTGCAGC 252
Db 385 SerIleCysSer 388

RESULT 4
US-09-049-698-41
; Sequence 41, Application US/09049698
; Patent No. 6368792
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA A.
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: HAYDEN, MARK
; APPLICANT: KLASS, MICHAEL R.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE
; TITLE OF INVENTION: REAGENTS FOR DETECTING DISEASES OF THE GASTROINTESTINAL
; TITLE OF INVENTION: TRACT
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/049,698
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/828,856
; FILING DATE: 31-MAR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6068.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 41:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 917 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: No. 6368792e
US-09-049-698-41
Alignment Scores: 1.45e-27 Length: 917
Pred. No.: 268.00 Matches: 56
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Percent Similarity: 76.19% Conservative: 8
Best Local Similarity: 66.67% Mismatches: 20
Query Match: 58.90% Indels: 0
DB: 4 Gaps: 0
US-09-049-696-6 (1-252) x US-09-049-698-41 (1-917)
QY 1 CAAAGAATTGTGTGTTAGTCTTGCACAAATCTGGAAGCATGCGAGTGGTAACCGCCTC 60
Db 304 GlnArgIleValCysLeuValLeuAspLysSerGlySerMetGlyGlyLysAspArgLeu 323
QY 61 AATCGACTGAATCAAGCAGCCAGCTTTTCCTGCTGCACACAGTTGAGTGGGGTCTCG 120
Db 325 ArgArgValValCysLeuValLeuAspLysSerGlySerMetAspLysGluAspArgLeu 325
QY 61 AATCGACTGAATCAAGCAGCCAGCTTTTCCTGCTGCACACAGTTGAGTGGGGTCTCG 120
Db 326 IleArgMetAsnGlnAlaAlaGluLeuTyrLeuThrGlnIleValGluLysGluSerMet 345
QY 121 GTTGGGATGTCACATTTGACAGTGTGCTGCCCATGTACAAAGTGAATCATACAGATAAAC 180
Db 346 ValGlyLeuValThrPheAspSerAlaAlaHisIleGlnAsnTyrLeuIleLysIleThr 365
QY 181 ACTGCAGTGCAGGAGCAGCTCGCCAAAGATTAATCTGCAGCAGCTTCAGAGGGAGC 240
Db 366 SerSerSerAspTyrGlnLysIleThrAlaAlaAsnLeuProGlnGlnAlaSerGlyGlyThr 385

RESULT 5
US-09-193-562D-34
; Sequence 34, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 34
; LENGTH: 902
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-193-562D-34
Alignment Scores:
Pred. No.: 7.47e-25 Length: 902
Score: 248.00 Matches: 51
Percent Similarity: 74.70% Conservative: 11
Best Local Similarity: 61.45% Mismatches: 21
Query Match: 54.51% Indels: 0
DB: 4 Gaps: 0
US-09-049-696-6 (1-252) x US-09-193-562D-34 (1-902)
QY 1 CAAAGAATTGTGTGTTAGTCTTGCACAAATCTGGAAGCATGCGAGTGGTAACCGCCTC 60
Db 306 ArgArgValValCysLeuValLeuAspLysSerGlySerMetAspLysGluAspArgLeu 325
QY 61 AATCGACTGAATCAAGCAGCCAGCTTTTCCTGCTGCACACAGTTGAGTGGGGTCTCG 120
Db 326 IleArgMetAsnGlnAlaAlaGluLeuTyrLeuThrGlnIleValGluLysGluSerMet 345
QY 121 GTTGGGATGTCACATTTGACAGTGTGCTGCCCATGTACAAAGTGAATCATACAGATAAAC 180
Db 346 ValGlyLeuValThrPheAspSerAlaAlaHisIleGlnAsnTyrLeuIleLysIleThr 365
QY 181 ACTGCAGTGCAGGAGCAGCTCGCCAAAGATTAATCTGCAGCAGCTTCAGAGGGAGC 240
Db 366 SerSerSerAspTyrGlnLysIleThrAlaAlaAsnLeuProGlnGlnAlaSerGlyGlyThr 385
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QY 241 TCCATCTGC 249

Db 386 SerilleCys 388

## RESULT 6

US-09-193-562D-46

; Sequence 46, Application US/09193562D

; Patent No. 6309857

; GENERAL INFORMATION:

; APPLICANT: Pauli, Benedicht U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

; FILE REFERENCE: 18617.0052

; CURRENT APPLICATION NUMBER: US/09/193,562D

; CURRENT FILING DATE: 1998-11-17

; PRIOR APPLICATION NUMBER: US/60/065,922

; PRIOR FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 46

; LENGTH: 903

; TYPE: PRT

; ORGANISM: Unknown

; FEATURE:

; OTHER INFORMATION: Calcium sensitive chloride channel from bovine tracheal

; OTHER INFORMATION: epithelium (Cunningham et al., 1995, J. Biol Chem., 270:31016-

; OTHER INFORMATION: 31026).

US-09-193-562D-46

## Alignment Scores:

Pred. No.:	3.18e-23	Length:	903
Score:	236.00	Matches:	46
Percent Similarity:	74.70%	Conservative:	16
Best Local Similarity:	55.42%	Mismatches:	21
Query Match:	51.87%	Indels:	0
DB:	4	Gaps:	0

US-09-049-696-6 (1-252) x US-09-193-562D-46 (1-903)

QY 1 CAAGAATTGTGTTAGTCTTGCACAAATCTGGAAGTGGCGACTGGTAACCGCTC 60

Db 306 GlnArgValValCysLeuValLeuValLeuAspGlySerMetSerGluAspArgLeu 325

QY 61 AATCGACTGAATCAAGCAGCGCAGCTTTCTCTGCTGCAGACAGTTGAGTGGGGTCTGG 120

Db 326 PheArgMetAsnGlnAlaGluLeuPheLeuIleGlnIleGluLysGlySerLeu 345

QY 121 GTTGGGATGGTGACATTTGACAGTGTGCTGCCATGTACAAAGTGAATCATACAGATAAAC 180

Db 346 ValGlyMetValThrPheAspSerValAlaGluIleArgAsnAsnLeuThrLysIleThr 365

QY 181 AGTGCAGTGACAGGACACACTCCGCAAAAGATTACTGTCAGCAGCTTCAGGAGGAGC 240

Db 366 AspAspAsnValTyrGluAsnIleThrAlaAsnLeuProGlnGluAlaAsnGlyGlyThr 385

QY 241 TCCATCTGC 249

Db 386 SerilleCys 388

## RESULT 7

US-09-623-624-18

; Sequence 18, Application US/09623624

; Patent No. 6576434

; GENERAL INFORMATION:

; APPLICANT: Magainin Pharmaceuticals, Inc.

; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating

; FILE REFERENCE: Acopic Allergies, Including Asthma and Related

; TITLE OF INVENTION: Disorders

; FILE REFERENCE: 36870-5073-WO

; CURRENT APPLICATION NUMBER: US/09/623,624

; CURRENT FILING DATE: 2000-09-06

; PRIOR APPLICATION NUMBER: PCT/US99/04703

; PRIOR FILING DATE: 1999-03-03

; PRIOR APPLICATION NUMBER: US 08/697,360

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,419

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,440

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,471

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,471

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,472

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,473

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/702,105

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/702,110

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/702,168

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/980,872

; PRIOR FILING DATE: 1997-12-01

; NUMBER OF SEQ ID NOS: 18

; SOFTWARE: Patent in Ver. 2.0

; SEQ ID NO 18

; LENGTH: 903

; TYPE: PRT

; ORGANISM: Bos taurus

US-09-623-624-18

## Alignment Scores:

Pred. No.:	3.18e-23	Length:	903
Score:	236.00	Matches:	46
Percent Similarity:	74.70%	Conservative:	16
Best Local Similarity:	55.42%	Mismatches:	21
Query Match:	51.87%	Indels:	0
DB:	4	Gaps:	0

US-09-049-696-6 (1-252) x US-09-623-624-18 (1-903)

QY 1 CAAGAATTGTGTTAGTCTTGCACAAATCTGGAAGTGGCGACTGGTAACCGCTC 60

Db 306 GlnArgValValCysLeuValLeuValLeuAspGlySerMetSerGluAspArgLeu 325

QY 61 AATCGACTGAATCAAGCAGCGCAGCTTTCTCTGCTGCAGACAGTTGAGTGGGGTCTGG 120

Db 326 PheArgMetAsnGlnAlaGluLeuPheLeuIleGlnIleGluLysGlySerLeu 345

QY 121 GTTGGGATGGTGACATTTGACAGTGTGCTGCCATGTACAAAGTGAATCATACAGATAAAC 180

Db 346 ValGlyMetValThrPheAspSerValAlaGluIleArgAsnAsnLeuThrLysIleThr 365

QY 181 AGTGCAGTGACAGGACACACTCCGCAAAAGATTACTGTCAGCAGCTTCAGGAGGAGC 240

Db 366 AspAspAsnValTyrGluAsnIleThrAlaAsnLeuProGlnGluAlaAsnGlyGlyThr 385

QY 241 TCCATCTGC 249

Db 386 SerilleCys 388

## RESULT 8

US-09-193-562D-11

; Sequence 11, Application US/09193562D

; Patent No. 6309857

; GENERAL INFORMATION:

; APPLICANT: Pauli, Benedicht U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

; FILE REFERENCE: Activated Chloride Channel-Adhesion Molecules

; FILE REFERENCE: 18617.0052

; CURRENT APPLICATION NUMBER: US/09/193,562D

; CURRENT FILING DATE: 1998-11-17

; PRIOR APPLICATION NUMBER: US/60/065,922

; PRIOR FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47

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; SEQ ID NO 11
; LENGTH: 795
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-11

Alignment Scores:
Pred. No.: 7,78e-23 Length: 795
Score: 233.00 Matches: 45
Percent Similarity: 73.49% Conservative: 16
Best Local Similarity: 54.22% Mismatches: 22
Query Match: 51.21% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-6 (1-252) x US-09-193-562D-11 (1-795)

QY 1 CAAGAATGTGTTAGTCTTGCACAAATCTGGAAGCATGGCGACTGGTAACCGCCTC 60
Db |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
307 GlnArgValValCysLeuValLeuAplYsSerGlySerMetSerAlaGluAspArgLeu 326

QY 61 AATCGACTGAATCAAGCAGCCAGCTTTTCTGCTGCACAGACTGGTAAACCGCCTC 120
Db |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
327 PheGlnMetAsnGlnAlaGluLeuTyrLeuIleGlnValIleGluLysGlySerLeu 346

QY 121 GTTGGGATGGTGCACATTTGCACAGTCTGCCCATGTACAAAGTCAACTCATACAGATAAAC 180
Db |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
347 ValGlyMetValThrPheAspSerValAlaGluIleGlnAsnHisLeuThrArgIleThr 366

QY 181 AGTGCAGTGCAGGACACACTCGCCAAAGATTACCTGCAGCAGCTTCAGAGGGAGC 240
Db |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
367 AspAspAsnValTyrGlnLysIleThrAlaLysLeuProGlnValAlaAsnGlyGlyThr 386

QY 241 TCCATCTGC 249
Db |||||:|||||:
387 SerIleCys 389

RESULT 9
US-09-193-562D-12
; Sequence 12, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 12
; LENGTH: 821
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-12

Alignment Scores:
Pred. No.: 7,86e-23 Length: 821
Score: 233.00 Matches: 45
Percent Similarity: 73.49% Conservative: 16
Best Local Similarity: 54.22% Mismatches: 22
Query Match: 51.21% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-6 (1-252) x US-09-193-562D-12 (1-821)

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307 GlnArgValValCysLeuValLeuAplYsSerGlySerMetSerAlaGluAspArgLeu 326
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QY 121 GTTGGGATGGTGCACATTTGCACAGTCTGCCCATGTACAAAGTCAACTCATACAGATAAAC 180
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347 ValGlyMetValThrPheAspSerValAlaGluIleGlnAsnHisLeuThrArgIleThr 366

QY 181 AGTGCAGTGCAGGACACACTCGCCAAAGATTACCTGCAGCAGCTTCAGAGGGAGC 240
Db |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
367 AspAspAsnValTyrGlnLysIleThrAlaLysLeuProGlnValAlaAsnGlyGlyThr 386

QY 241 TCCATCTGC 249
Db |||||:|||||:
387 SerIleCys 389

RESULT 10
US-09-193-562D-2
; Sequence 2, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 2
; LENGTH: 905
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells
US-09-193-562D-2

Alignment Scores:
Pred. No.: 8,12e-23 Length: 905
Score: 233.00 Matches: 45
Percent Similarity: 73.49% Conservative: 16
Best Local Similarity: 54.22% Mismatches: 22
Query Match: 51.21% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-6 (1-252) x US-09-193-562D-2 (1-905)

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307 GlnArgValValCysLeuValLeuAplYsSerGlySerMetSerAlaGluAspArgLeu 326

QY 61 AATCGACTGAATCAAGCAGCCAGCTTTTCTGCTGCACAGACTGGTAAACCGCCTC 120
Db |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
327 PheGlnMetAsnGlnAlaGluLeuTyrLeuIleGlnValIleGluLysGlySerLeu 346

QY 121 GTTGGGATGGTGCACATTTGCACAGTCTGCCCATGTACAAAGTCAACTCATACAGATAAAC 180
Db |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
347 ValGlyMetValThrPheAspSerValAlaGluIleGlnAsnHisLeuThrArgIleThr 366

QY 181 AGTGCAGTGCAGGACACACTCGCCAAAGATTACCTGCAGCAGCTTCAGAGGGAGC 240
Db |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
367 AspAspAsnValTyrGlnLysIleThrAlaLysLeuProGlnValAlaAsnGlyGlyThr 386

QY 241 TCCATCTGC 249
Db |||||:|||||:
387 SerIleCys 389

RESULT 11
US-09-193-562D-30
; Sequence 30, Application US/09193562D
; Patent No. 6309857
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DATE: 1/20/00 TO : MEMPHIS POLICE DEPT /



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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 24, 2004, 04:05:52 ; Search time 117.735 Seconds

(without alignments)  
8424.829 Million cell updates/sec

Title: US-09-049-696-5

Perfect score: 220

Sequence: 1 CTTATGTTGAATCTGTACA.....GACAAATCTGAAGCATGCG 220

Scoring table: IDENTITY NUC

Gapop 10\_0 , Gapext 1.0

Searched: 2907579 seqs, 2254313464 residues

Total number of hits satisfying chosen parameters: 5815158

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA.\*

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- 18: /cgn2\_6/prodata/2/pubpna/US10\_PUBCOMB.seq.\*
- 19: /cgn2\_6/prodata/2/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	220	100.0	2745	15	US-10-270-595-5
2	220	100.0	2854	15	US-10-106-698-1971
3	220	100.0	2867	15	US-10-106-698-351
4	220	100.0	3007	15	US-10-055-412B-27
5	220	100.0	3109	15	US-10-106-698-2111
6	220	100.0	3111	9	US-09-823-356-25
7	220	100.0	3111	9	US-09-823-356-25
8	220	100.0	3111	15	US-10-235-994-25
9	220	100.0	3267	9	US-09-764-868-22
10	220	100.0	3311	9	US-09-922-217-1056
11	220	100.0	3311	9	US-09-833-263-1056
12	220	100.0	3311	14	US-10-025-380-1056
13	220	100.0	3311	15	US-10-393-590-11
14	220	100.0	3311	15	US-10-393-590-12

15	220	100.0	3311	15	US-10-393-590-46	Sequence 46, Appl
16	220	100.0	3311	15	US-10-393-590-47	Sequence 47, Appl
17	220	100.0	3311	15	US-10-393-567-11	Sequence 11, Appl
18	220	100.0	3311	15	US-10-393-567-12	Sequence 12, Appl
19	220	100.0	3311	15	US-10-393-567-46	Sequence 46, Appl
20	220	100.0	3311	15	US-10-393-567-47	Sequence 47, Appl
21	220	100.0	3311	15	US-10-394-087-11	Sequence 11, Appl
22	220	100.0	3311	15	US-10-394-087-12	Sequence 12, Appl
23	220	100.0	3311	15	US-10-394-087-46	Sequence 46, Appl
24	220	100.0	3311	15	US-10-394-087-47	Sequence 47, Appl
25	220	100.0	4569	10	US-09-867-034-3	Sequence 3, Appl
26	220	100.0	4569	13	US-10-276-115-3	Sequence 3, Appl
27	162	73.6	2331	15	US-10-270-595-1	Sequence 1, Appl
28	140	63.6	278	11	US-09-864-408A-8553	Sequence 8553, Ap
29	138.4	62.9	279	11	US-09-864-408A-6149	Sequence 6149, Ap
30	132.6	60.3	2754	15	US-10-345-680-33	Sequence 33, Appl
31	132.6	60.3	3043	14	US-10-025-167-16	Sequence 16, Appl
32	132.6	60.3	3169	9	US-09-981-353-53	Sequence 53, Appl
33	132.6	60.3	3169	15	US-10-235-994-15	Sequence 15, Appl
34	132.6	60.3	3181	14	US-10-025-167-18	Sequence 18, Appl
35	132.6	60.3	3195	10	US-09-867-034-22	Sequence 22, Appl
36	132.6	60.3	3195	13	US-10-276-115-22	Sequence 22, Appl
37	132.6	60.3	3196	15	US-10-158-646-39	Sequence 39, Appl
38	132.6	60.3	3199	13	US-10-276-774-993	Sequence 993, Appl
39	132.6	60.3	3204	15	US-10-345-680-31	Sequence 31, Appl
40	132.6	60.3	3207	15	US-10-101-510-660	Sequence 660, Appl
41	132.6	60.3	3218	16	US-10-087-080-33	Sequence 33, Appl
42	132.6	60.3	3265	9	US-09-989-723-378	Sequence 378, App
43	132.6	60.3	3265	9	US-09-989-723-378	Sequence 378, App
44	132.6	60.3	3265	9	US-09-989-723-378	Sequence 378, App
45	132.6	60.3	3265	9	US-09-989-723-378	Sequence 378, App

ALIGNMENTS

RESULT 1

US-10-270-595-5  
; Sequence 5, Application US/10270595  
; Publication No. US20030078409A1  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; CURRENT FILING DATE: 2002-10-16  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 2745

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; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(2742)
US-10-270-595-5

Query Match      100.0%; Score 220; DB 15; Length 2745;
Best Local Similarity 100.0%; Pred. No. 5.6e-60;
Matches 220; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTATAGTTGAATTCGTACAGAACAAACCAACAAAGAAAGCTCCAAACAGCAAAATC 60
DB 734 CTATAGTTGAATTCGTACAGAACAAACCAACAAAGAAAGCTCCAAACAGCAAAATC 793

QY 61 AAAATGCAATCTCGAAGCACATGGAAGTATCGTGATTCGAGGACTTTAAGAAA 120
DB 794 AAAATGCAATCTCGAAGCACATGGAAGTATCGTGATTCGAGGACTTTAAGAAA 853

QY 121 CCACCTCTATGACACACAGCCACCAAAATCCACCTTCTCATTTGTCGAGATTGACAAA 180
DB 854 CCACCTCTATGACACACAGCCACCAAAATCCACCTTCTCATTTGTCGAGATTGACAAA 913

QY 181 GAATTGTGTTAGTCTCTTGACAAATCTGGAAGCATGGC 220
DB 914 GAATTGTGTTAGTCTCTTGACAAATCTGGAAGCATGGC 953

RESULT 2
US-10-106-698-1971
; Sequence 1971, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
; FILE REFERENCE: PA005P1
; CURRENT APPLICATION NUMBER: US/10/106,698
; PRIOR FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 1971
; LENGTH: 2854
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-106-698-1971

Query Match      100.0%; Score 220; DB 15; Length 2854;
Best Local Similarity 100.0%; Pred. No. 5.7e-60;
Matches 220; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTATAGTTGAATTCGTACAGAACAAACCAACAAAGAAAGCTCCAAACAGCAAAATC 60
DB 768 CTATAGTTGAATTCGTACAGAACAAACCAACAAAGAAAGCTCCAAACAGCAAAATC 827

QY 61 AAAATGCAATCTCGAAGCACATGGAAGTATCGTGATTCGAGGACTTTAAGAAA 120
DB 828 AAAATGCAATCTCGAAGCACATGGAAGTATCGTGATTCGAGGACTTTAAGAAA 887

QY 121 CCACCTCTATGACACACAGCCACCAAAATCCACCTTCTCATTTGTCGAGATTGACAAA 180
DB 888 CCACCTCTATGACACACAGCCACCAAAATCCACCTTCTCATTTGTCGAGATTGACAAA 947

QY 181 GAATTGTGTTAGTCTCTTGACAAATCTGGAAGCATGGC 220
DB 948 GAATTGTGTTAGTCTCTTGACAAATCTGGAAGCATGGC 987
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RESULT 3
US-10-106-698-351
; Sequence 351, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides
; FILE REFERENCE: PA005P1
; CURRENT APPLICATION NUMBER: US/10/106,698
; PRIOR FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 351
; LENGTH: 2867
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-106-698-351

Query Match      100.0%; Score 220; DB 15; Length 2867;
Best Local Similarity 100.0%; Pred. No. 5.7e-60;
Matches 220; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 61 AAAATGCAATCTCGAAGCACATGGAAGTATCGTGATTCGAGGACTTTAAGAAA 120
DB 831 AAAATGCAATCTCGAAGCACATGGAAGTATCGTGATTCGAGGACTTTAAGAAA 890

QY 121 CCACCTCTATGACACACAGCCACCAAAATCCACCTTCTCATTTGTCGAGATTGACAAA 180
DB 891 CCACCTCTATGACACACAGCCACCAAAATCCACCTTCTCATTTGTCGAGATTGACAAA 950

QY 181 GAATTGTGTTAGTCTCTTGACAAATCTGGAAGCATGGC 220
DB 951 GAATTGTGTTAGTCTCTTGACAAATCTGGAAGCATGGC 990

RESULT 4
US-10-055-412B-27
; Sequence 27, Application US/10055412B
; Publication No. US20030059861A1
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0058
; CURRENT APPLICATION NUMBER: US/10/055,412B
; PRIOR FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: US/09/193,562
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 27
; LENGTH: 3007
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-055-412B-27

Query Match      100.0%; Score 220; DB 15; Length 3007;
Best Local Similarity 100.0%; Pred. No. 5.8e-60;
Matches 220; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 840 AAAAAATGCAATCTCCGAAGCACATGGAAGTATCGTGATTCGAGGACTTTAAGAAAA 899  
QY 121 CCACCTCTATGACACACAGCAGCCACCAATCCCACTTCTCATTTGCTGCGAGATTGGACAAA 180  
Db 900 CCACCTCTATGACACACAGCAGCCACCAATCCCACTTCTCATTTGCTGCGAGATTGGACAAA 959  
QY 181 GAATTGTGTTAGTTCCTTGACAAATCTGGAAGCATGGC 220  
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RESULT 5

US-10-106-698-2111  
; Sequence 2111, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; PRIOR FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 2111  
; LENGTH: 3109  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-106-698-2111

Query Match 100.0%; Score 220; DB 15; Length 3109;  
Best Local Similarity 100.0%; Pred. No. 5.9e-60; Mismatches 0; Indels 0; Gaps 0;  
Matches 220; Conservative 0;

QY 1 CTATAGTTGAATTCGTACAGAACAAACCAACAAAGAGCTCCAAACAAAGCAAAATC 60  
Db 621 CTATAGTTGAATTCGTACAGAACAAACCAACAAAGAGCTCCAAACAAAGCAAAATC 680  
QY 61 AAAAAATGCAATCTCCGAAGCACATGGAAGTATCGTGATTCGAGGACTTTAAGAAAA 120  
Db 681 AAAAAATGCAATCTCCGAAGCACATGGAAGTATCGTGATTCGAGGACTTTAAGAAAA 740  
QY 121 CCACCTCTATGACACACAGCAGCCACCAATCCCACTTCTCATTTGCTGCGAGATTGGACAAA 180  
Db 741 CCACCTCTATGACACACAGCAGCCACCAATCCCACTTCTCATTTGCTGCGAGATTGGACAAA 800  
QY 181 GAATTGTGTTAGTTCCTTGACAAATCTGGAAGCATGGC 220  
Db 801 GAATTGTGTTAGTTCCTTGACAAATCTGGAAGCATGGC 840

RESULT 6

US-09-823-356-25  
; Sequence 25, Application US/09823356  
; Patent No. US20010025098A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Kaser, Matthew R.

; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
; FILE REFERENCE: PF-0489-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823,356  
; CURRENT FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/039,307  
; PRIOR FILING DATE: 1998 March 13  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PERL Program  
; SEQ ID NO 25  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775  
US-09-823-356-25

Query Match 100.0%; Score 220; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 5.9e-60; Mismatches 0; Indels 0; Gaps 0;  
Matches 220; Conservative 0;

QY 1 CTATAGTTGAATTCGTACAGAACAAACCAACAAAGAGCTCCAAACAAAGCAAAATC 60  
Db 767 CTATAGTTGAATTCGTACAGAACAAACCAACAAAGAGCTCCAAACAAAGCAAAATC 826  
QY 61 AAAAAATGCAATCTCCGAAGCACATGGAAGTATCGTGATTCGAGGACTTTAAGAAAA 120  
Db 827 AAAAAATGCAATCTCCGAAGCACATGGAAGTATCGTGATTCGAGGACTTTAAGAAAA 886  
QY 121 CCACCTCTATGACACACAGCAGCCACCAATCCCACTTCTCATTTGCTGCGAGATTGGACAAA 180  
Db 887 CCACCTCTATGACACACAGCAGCCACCAATCCCACTTCTCATTTGCTGCGAGATTGGACAAA 946  
QY 181 GAATTGTGTTAGTTCCTTGACAAATCTGGAAGCATGGC 220  
Db 947 GAATTGTGTTAGTTCCTTGACAAATCTGGAAGCATGGC 986

RESULT 7

US-09-981-353-191  
; Sequence 191, Application US/09981353  
; Patent No. US20020160382A1  
; GENERAL INFORMATION:  
; APPLICANT: Lasek, Amy W.  
; APPLICANT: Jones, David A.  
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
; FILE REFERENCE: PA-0038 US  
; CURRENT APPLICATION NUMBER: US/09/981,353  
; CURRENT FILING DATE: 2001-10-11  
; NUMBER OF SEQ ID NOS: 194  
; SOFTWARE: PERL Program  
; SEQ ID NO 191  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CB1  
US-09-981-353-191

Query Match 100.0%; Score 220; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 5.9e-60; Mismatches 0; Indels 0; Gaps 0;  
Matches 220; Conservative 0;

QY 1 CTATAGTTGAATTCGTACAGAACAAACCAACAAAGAGCTCCAAACAAAGCAAAATC 60  
Db 767 CTATAGTTGAATTCGTACAGAACAAACCAACAAAGAGCTCCAAACAAAGCAAAATC 826  
QY 61 AAAAAATGCAATCTCCGAAGCACATGGAAGTATCGTGATTCGAGGACTTTAAGAAAA 120  
Db 827 AAAAAATGCAATCTCCGAAGCACATGGAAGTATCGTGATTCGAGGACTTTAAGAAAA 886

Qy	121	CCATCCTTATGACACACAGCCACCAATCCACCTTCTCATTTGCTGCAGATTGGACAA	180
Db	887	CCATCCTTATGACACACAGCCACCAATCCACCTTCTCATTTGCTGCAGATTGGACAA	946
Qy	181	GAATTGTGTGTTTGTAGTCTTGCACAAATCTGGAAGCATGGC	220
Db	947	GAATTGTGTGTTTGTAGTCTTGCACAAATCTGGAAGCATGGC	986

## RESULT 8

```

US-10-235-994-25
; Sequence 25, Application US/10235994
; Publication No. US200301002A1
; GENERAL INFORMATION:
; APPLICANT: Bartha, Gabor
; APPLICANT: Walker, Michael
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS
; FILE REFERENCE: ICYP012
; CURRENT APPLICATION NUMBER: US/10/235,994
; CURRENT FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: US/10/003,608
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,081
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 3111
; TYPE: DNA
; ORGANISM: Human
US-10-235-994-25

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Query Match	100.0%	Score 220;	DB 15;	Length 3111;
Best Local Similarity	100.0%;	Pred. No. 5.9e-60;		
Matches 220;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	CTATAGTTGAATCTCTGACAGACAAACCAACCAAGAGCTCCAAAACAAAGCAAAATC	60	
Db	767	CTATAGTTGAATCTCTGACAGACAAACCAACCAAGAGCTCCAAAACAAAGCAAAATC	826	
Qy	61	AAAAATGCAATCTCCGAAGCACATGGGAAGTGATCCGTGATTTTGAGGACTTTTAAGAAA	120	
Db	827	AAAAATGCAATCTCCGAAGCACATGGGAAGTGATCCGTGATTTTGAGGACTTTTAAGAAA	886	
Qy	121	CCACTCTATGACAAACACAGCCACCAATCCCACCTTCTCATTCCTGCAGATTCGACAAA	180	
Db	887	CCACTCTATGACAAACACAGCCACCAATCCCACCTTCTCATTCCTGCAGATTCGACAAA	946	
Qy	181	GAATTTGTGTCCTTAGTCTTTGACAAATCTGGGAAGCATGGC	220	
Db	947	GAATTTGTGTCCTTAGTCTTTGACAAATCTGGGAAGCATGGC	986	

## RESULT 9

```

; RESULT: 9
; US-09-764-868-22
; Sequence 22, Application US/09764868
; Patent No. US20020168711A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PTZ32
; CURRENT APPLICATION NUMBER: US/09/764,868
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1510
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 22
; LENGTH: 3267
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-764-868-22.

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	Query Match	100.0.0%;	Score 220;	DB 9;	Length 3267;
	Best Local Similarity	100.0.0%;	Pred. No. 6.1e-60;		
	Matches 220;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	CTATAGTTGAATTCCTGTACAGACAAACACACAAAGAAAGCTCCAAACAAAGCAAAATC	60		
Db	768	CTATAGTTGAATTCCTGTACAGACAAACACACAAAGAAAGCTCCAAACAAAGCAAAATC	827		
Qy	61	AAAAATGCAATCTCCGAAGCACATGGGAAGTGATCCGTGATTCGTAGGACCTTTAAGAAAA	120		
Db	828	AAAAATGCAATCTCCGAAGCACATGGGAAGTGATCCGTGATTCGTAGGACCTTTAAGAAAA	887		
Qy	121	CCACTCCTATGACAAACACAGCCACCAAAATCCCACTTCTCATTTGCTGCAGATTGGACAAA	180		
Db	888	CCACTCCTATGACAAACACAGCCACCAAAATCCCACTTCTCATTTGCTGCAGATTGGACAAA	947		
Qy	181	GAATTGTGTTTGTAGTCCTTTGACAAATCTGGAAAGCATGGC	220		
Db	948	GAATTGTGTTTGTAGTCCTTTGACAAATCTGGAAAGCATGGC	987		

## RESULT 10

```

RESULI 10
US-09-922-217-1056
; Sequence 1056, Application US/09922217
; Patent No. US2002007641A1.
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; CURRENT FILING DATE: 2001-08-03
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 1056
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-922-217-1056

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Query Match	100.0%;	Score 220;	DB 9;	Length 3311;
Best Local Similarity	100.0%;	Pred. No. 6.1e-60;		
Matches 220;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	CTATAGTTGAATCTCTGTACAGAACAAACACACAAAGAAAGTCCAAACAAAGCAAAATC	60	
Db	1085	CTATAGTTGAATCTCTGTACAGAACAAACACACAAAGAAAGTCCAAACAAAGCAAAATC	1144	
Qy	61	AAAAATGCAATCTCCGAAGCACATGGGAAGTGATCCGTGATTTCTGAGGACTTTAAGAAAA	120	
Db	1145	AAAAATGCAATCTCCGAAGCACATGGGAAGTGATCCGTGATTTCTGAGGACTTTAAGAAAA	1204	
Qy	121	CCACTCCTATGACAAACACAGCCACCAATCCCACTTCTCATTTGCTCCAGATTGGACAA	180	
Db	1205	CCACTCCTATGACAAACACAGCCACCAATCCCACTTCTCATTTGCTCCAGATTGGACAA	1264	
Qy	181	GAATTGTGTTTAGTCCTTTGACAAATCTCGAAGCATGGC	220	
Db	1265	GAATTGTGTTTAGTCCTTTGACAAATCTCGAAGCATGGC	1304	

## RESULT 11

```
US-09-833-263-1056
; Sequence 1056, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Stolk, John A.
; APPLICANT: Meagher, Madeleine J.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; FILE REFERENCE: 210121.471C12
; CURRENT APPLICATION NUMBER: US/09/833,263
; CURRENT FILING DATE: 2001-04-10
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1056
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-833-263-1056

Query Match      100.0%; Score 220; DB 9; Length 3311;
Best Local Similarity 100.0%; Pred. No. 6.1e-60;
Matches 220; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTATAGTTGAATTCCTGACAGAACAAACCAACAAAGAGCTCCAAACAGCAAAATC 60
DB 1085 CTATAGTTGAATTCCTGACAGAACAAACCAACAAAGAGCTCCAAACAGCAAAATC 1144

QY 61 AAAAAATGCAATCTCCGAAGCACATGGGAAGTGCATCGTATTCGAGGACTTTAAGAAA 120
DB 1145 AAAAAATGCAATCTCCGAAGCACATGGGAAGTGCATCGTATTCGAGGACTTTAAGAAA 1204

QY 121 CCACCTCCTATGACACACAGCCACCAATCCCACTTCTCATTTGCTGCAGATTGGACAA 180
DB 1205 CCACCTCCTATGACACACAGCCACCAATCCCACTTCTCATTTGCTGCAGATTGGACAA 1264

QY 181 GAATTGTGTTTGTAGTCCTTGACAAATCTGGAAGCATGGC 220
DB 1265 GAATTGTGTTTGTAGTCCTTGACAAATCTGGAAGCATGGC 1304

RESULT 13
US-10-393-590-11
; Sequence 11, Application US/10393590
; Publication No. US20030190656A1
; GENERAL INFORMATION:
; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO
; FILE REFERENCE: CDS 268 US NP
; CURRENT APPLICATION NUMBER: US/10/393,590
; CURRENT FILING DATE: 2003-03-21
; PRIOR APPLICATION NUMBER: 60/368,789
; PRIOR FILING DATE: 2002-03-29
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: human
US-10-393-590-11

Query Match      100.0%; Score 220; DB 15; Length 3311;
Best Local Similarity 100.0%; Pred. No. 6.1e-60;
Matches 220; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTATAGTTGAATTCCTGACAGAACAAACCAACAAAGAGCTCCAAACAGCAAAATC 60
DB 1085 CTATAGTTGAATTCCTGACAGAACAAACCAACAAAGAGCTCCAAACAGCAAAATC 1144

QY 61 AAAAAATGCAATCTCCGAAGCACATGGGAAGTGCATCGTATTCGAGGACTTTAAGAAA 120
DB 1145 AAAAAATGCAATCTCCGAAGCACATGGGAAGTGCATCGTATTCGAGGACTTTAAGAAA 1204

QY 121 CCACCTCCTATGACACACAGCCACCAATCCCACTTCTCATTTGCTGCAGATTGGACAA 180
DB 1205 CCACCTCCTATGACACACAGCCACCAATCCCACTTCTCATTTGCTGCAGATTGGACAA 1264

QY 181 GAATTGTGTTTGTAGTCCTTGACAAATCTGGAAGCATGGC 220
DB 1265 GAATTGTGTTTGTAGTCCTTGACAAATCTGGAAGCATGGC 1304

RESULT 14
US-10-393-590-12
; Sequence 12, Application US/10393590
; Publication No. US20030190656A1
; GENERAL INFORMATION:
; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO
; FILE REFERENCE: CDS 268 US NP
```

; CURRENT APPLICATION NUMBER: US/10/393,590  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 12  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-590-12

Query Match 100.0%; Score 220; DB 15; Length 3311;  
Best Local Similarity 100.0%; Pred. No. 6.1e-60;  
Matches 220; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 CTATAGTTGAATTCGTACAGAACAAAACCAACAAAGAGCTCCAAACAAAGCAAATC 60  
DB 1085 CTATAGTTGAATTCGTACAGAACAAAACCAACAAAGAGCTCCAAACAAAGCAAATC 1144  
QY 61 AAAAATGCAATCTCCGAGCACATGGGAGTGCATCGTGATTCGAGGACTTTAAGAAAA 120  
DB 1145 AAAAATGCAATCTCCGAGCACATGGGAGTGCATCGTGATTCGAGGACTTTAAGAAAA 1204  
QY 121 CCACCTCTATGACACACAGCCACCAAAATCCACCTTCTCATTTGTCAGATTGGACAAA 180  
DB 1205 CCACCTCTATGACACACAGCCACCAAAATCCACCTTCTCATTTGTCAGATTGGACAAA 1264  
QY 181 GAATTGTGTTAGTCTCTTGACAAATCTGGAAGCATGGC 220  
DB 1265 GAATTGTGTTAGTCTCTTGACAAATCTGGAAGCATGGC 1304

## RESULT 15

US-10-393-590-46  
; Sequence 46, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNOSTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 46  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-590-46

Query Match 100.0%; Score 220; DB 15; Length 3311;  
Best Local Similarity 100.0%; Pred. No. 6.1e-60;  
Matches 220; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 CTATAGTTGAATTCGTACAGAACAAAACCAACAAAGAGCTCCAAACAAAGCAAATC 60  
DB 1085 CTATAGTTGAATTCGTACAGAACAAAACCAACAAAGAGCTCCAAACAAAGCAAATC 1144  
QY 61 AAAAATGCAATCTCCGAGCACATGGGAGTGCATCGTGATTCGAGGACTTTAAGAAAA 120  
DB 1145 AAAAATGCAATCTCCGAGCACATGGGAGTGCATCGTGATTCGAGGACTTTAAGAAAA 1204  
QY 121 CCACCTCTATGACACACAGCCACCAAAATCCACCTTCTCATTTGTCAGATTGGACAAA 180  
DB 1205 CCACCTCTATGACACACAGCCACCAAAATCCACCTTCTCATTTGTCAGATTGGACAAA 1264  
QY 181 GAATTGTGTTAGTCTCTTGACAAATCTGGAAGCATGGC 220  
DB 1265 GAATTGTGTTAGTCTCTTGACAAATCTGGAAGCATGGC 1304

Search completed: April 24, 2004, 06:38:10  
Job time : 117.735 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 24, 2004, 00:33:00 ; Search time 20.2224 Seconds  
(without alignments)  
6037.311 Million cell updates/sec

Title: US-09-049-696-5  
Perfect score: 220  
Sequence: 1 CTATAGTTCGAATCTGTACA.....GACAAATCTGGAAGCATGCG 220

Scoring table: IDENTITY NUC  
Gapop 10\_0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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2: /cgn2\_6/prodata/2/ina/5B COMB.seq:  
3: /cgn2\_6/prodata/2/ina/6A COMB.seq:  
4: /cgn2\_6/prodata/2/ina/6B COMB.seq:  
5: /cgn2\_6/prodata/2/ina/PCTUS COMB.seq:  
6: /cgn2\_6/prodata/2/ina/backfiles1.seq:

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	220	100.0	2745	4	US-09-623-624-5
2	220	100.0	3007	4	US-09-193-562D-27
3	162	73.6	2931	4	US-09-623-624-1
4	132.6	60.3	3043	4	US-09-049-698-16
5	132.6	60.3	3181	4	US-09-049-698-18
6	125.4	57.0	231	4	US-09-049-698-3
7	125.4	57.0	619	4	US-09-016-434-931
8	103.2	46.9	3317	4	US-09-193-562D-1
9	99.4	45.2	3418	4	US-09-193-562D-29
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11	82.4	37.5	2970	4	US-09-193-562D-31
12	80.8	36.7	2773	4	US-09-643-597-358
13	80.8	36.7	2784	4	US-09-643-597-168
14	80.8	36.7	2784	4	US-09-480-884A-168
15	80.8	36.7	2784	4	US-09-542-615A-168
16	80.8	36.7	2784	4	US-09-606-421B-168
17	80.8	36.7	3190	4	US-09-623-624-3
18	80.8	36.7	3362	4	US-09-643-597-167
19	80.8	36.7	3362	4	US-09-480-884A-167
20	80.8	36.7	3362	4	US-09-542-615A-167
21	80.8	36.7	3362	4	US-09-606-421B-167
22	80.8	36.7	3951	4	US-09-643-597-160
23	80.8	36.7	3951	4	US-09-480-884A-160
24	80.8	36.7	3951	4	US-09-542-615A-160
25	80.8	36.7	3951	4	US-09-606-421B-160
26	80.8	36.7	3951	4	US-09-221-107-160
27	80.8	36.7	8031	4	US-09-643-597-254

28	80.8	36.7	8031	4	US-09-480-884A-254	Sequence 254, App
29	80.8	36.7	8031	4	US-09-542-615A-254	Sequence 254, App
30	80.8	36.7	8031	4	US-09-606-421B-254	Sequence 254, App
31	74.2	33.7	3156	4	US-09-919-172-86	Sequence 86, Appl
c 32	33	15.0	19513	4	US-10-204-708-39	Sequence 39, Appl
c 33	32.6	14.8	698	4	US-09-171-209-60	Sequence 60, Appl
c 34	32.2	14.6	1814	4	US-08-956-171B-458	Sequence 458, App
c 35	32.2	14.6	2434	4	US-09-665-479A-3	Sequence 3, Appl
36	31.8	14.5	99916	4	US-09-816-095-3	Sequence 3, Appl
37	31	14.1	193303	4	US-09-497-855A-37	Sequence 37, Appl
c 38	31	14.1	193303	4	US-09-497-855A-44	Sequence 44, Appl
c 39	30.6	13.9	19233	4	US-10-204-708-46	Sequence 46, Appl
c 40	30.4	13.8	6583	4	US-10-204-708-26	Sequence 26, Appl
c 41	30	13.6	647	4	US-09-495-050A-54	Sequence 54, Appl
c 42	30	13.6	6801	4	US-10-204-708-61	Sequence 61, Appl
c 43	30	13.6	10619	4	US-10-204-708-4	Sequence 4, Appl
c 44	29.8	13.5	519	3	US-09-068-140A-3	Sequence 3, Appl
c 45	29.8	13.5	3447	1	US-08-252-995D-3	Sequence 3, Appl

ALIGNMENTS

RESULT 1  
US-09-623-624-5  
; Sequence 5, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Asthmatic Allergies, Including Asthma and Related  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patent in Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 2745  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(2742)  
US-09-623-624-5

Query Match 100.0%; Score 220; DB 4; Length 2745;  
Best Local Similarity 100.0%; Pred. No. 3.9e-61;  
Matches 220; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	CTATAGTTGAATTC	TTGTACAGACAAA	CCACAAAGAGCT	CCAACAGCAAAATC	60
Db	734	CTATAGTTGAATTC	TTGTACAGACAAA	CCACAAAGAGCT	CCAACAGCAAAATC	793
Qy	61	AAAAATGCAATC	CCGAAGCAGCAT	GGGAAGTGAT	CCGTGATCTGAGGACTTTAAGAAA	120
Db	794	AAAAATGCAATC	CCGAAGCAGCAT	GGGAAGTGAT	CCGTGATCTGAGGACTTTAAGAAA	853
Qy	121	CCATCTCTATGACA	CACAGGCCACAAAT	CCACCTTCTCATTTGCTGCAGATTGGCAAA	180	
Db	854	CCATCTCTATGACA	CACAGGCCACAAAT	CCACCTTCTCATTTGCTGCAGATTGGCAAA	913	
Qy	181	GAATGTGTGTTAGT	CTCTTGACAAATCTGGAAGCATGGC	220		
Db	914	GAATGTGTGTTAGT	CTCTTGACAAATCTGGAAGCATGGC	953		

## RESULT 2

```

US-09-193-562D-27
; Sequence 27, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 19617.0052
; CURRENT APPLICATION NUMBER: US/09/193.562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065.922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 27
; LENGTH: 3007
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-193-562D-27

```

Query Match	100.0%	Score 220;	DB 4;	Length 3007;
Best Local Similarity	100.0%	Pred. No. 4.1e-61;		
Matches 220; Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;	
Qy	1	CTATAGTTGAATTCCTGTACAGACAAACCAACAAAGAGCTCCAAACAAAGCAAAATC	60	
Db	780	CTATAGTTGAATTCCTGTACAGACAAACCAACAAAGAGCTCCAAACAAAGCAAAATC	839	
Qy	61	AAAAATGCAATCTCCGAAGCACATGGGAAGTGATCCGTGATCTTGAGGACCTTTAAGAAAA	120	
Db	840	AAAAATGCAATCTCCGAAGCACATGGGAAGTGATCCGTGATCTTGAGGACCTTTAAGAAAA	899	
Qy	121	CCACTCTCATGACAAACACAGCCACCAATCCCACTTCTCATTCCTGCAGATTGGACAAA	180	
Db	900	CCACTCTCATGACAAACACAGCCACCAATCCCACTTCTCATTCCTGCAGATTGGACAAA	959	
Qy	181	GAATTGTGTTTGTAGTCTTGACAAATCTGGGAAGCATGGC	220	
Db	960	GAATTGTGTTTGTAGTCTTGACAAATCTGGGAAGCATGGC	999	

RESULT 3

RECORD 3  
 US-09-623-624-1  
 ; SEQUENCE 1, APPLICATION US/09623624  
 ; PATENT NO. 6576434  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Magainin Pharmaceuticals, Inc.  
 ; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
 ; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
 ; TITLE OF INVENTION: Disorders  
 ; FILE REFERENCE: 36870-5073-WO  
 ; CURRENT APPLICATION NUMBER: US/09/623,624  
 ; CURRENT FILING DATE: 2000-09-06  
 ; PRIOR APPLICATION NUMBER: PCT/US99/04703  
 ; PRIOR FILING DATE: 1999-03-03

```

; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,110
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,168
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/980,872
; PRIOR FILING DATE: 1997-12-01
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 2931
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (8)..(2746)
; US-09-623-624-1

```

Query Match	73.6%;	Score 162;	DB 4;	Length 2931;
Best Local Similarity	83.9%;	Pred. No. 1.8e-42;		
Matches 183;	Conservative	0;	Mismatches 35;	Indels 0; Gaps 0;
Qy	1	CTATAGTTGAATTC	TGTACAGAGAAACACACAAAGAAAGTCCAAACAAAGCAAAATC	60
Db	744	CTGTGTTGAAATTC	TGTACAGAAAAAATACAAATCAAGAAGCCCCAAATGACCAAAACC	803
Qy	61	AAAAATGCAATCTCCG	AAGCACATGGGAATGATTCGGTGATTTCTGAGGACTTTTAAGAAAA	120
Db	804	AACGATGCAATCTCCG	AAGCACGCTGGGAAGTCTATCCAGGAATCTTGAGGACTTCAAGCAA	863
Qy	121	CCACTCCTATGACAA	CACACAGCCACCAAAATCCCACTTCTCATTTGCTGCAGATTGGACAAA	180
Db	864	CCACTCCATGACAGCC	AGCCACCTGCAACCCACCTTCTCATGCTGCMAATGGACAAA	923
Qy	181	GAATTGTGTTTAGTC	CTTTGACAAATCTCGAAGCATG	218
Db	924	GAATTGTGCTTAGTT	CTTTGATAAGTCCGGGAGCATG	961

## RESULT 4

US-09-049-698-16  
US-09-049-698-16  
Sequence 16, Application US/09049698  
Patent No. 6368792  
GENERAL INFORMATION:  
APPLICANT: BILLING-MEDEL, PATRICIA A.  
APPLICANT: COHEN, MAURICE  
APPLICANT: COLPITTS, TRACEY L.  
APPLICANT: FRIEDMAN, PAULA N.  
APPLICANT: HAYDEN, MARK  
APPLICANT: KLASS, MICHAEL R.  
APPLICANT: ROBERTS-RAPP, LISA  
APPLICANT: RUSSELL, JOHN C.  
APPLICANT: STROUPE, STEPHEN D.  
TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
TITLE OF INVENTION: TRACT  
NUMBER OF SEQUENCES: 51  
CORRESPONDENCE ADDRESS:



ADDRESSEE: Abbott Laboratories  
STREET: 100 Abbott Park Road  
CITY: Abbott Park  
STATE: IL  
COUNTRY: USA  
ZIP: 60064-3500  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/049,698  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/828,856  
FILING DATE: 31-MAR-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Becker, Cheryl L.  
REGISTRATION NUMBER: 35,441  
REFERENCE/DOCKET NUMBER: 6068.US.P1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 847/935-1729  
TELEFAX: 847/938-2623  
TELEX:  
INFORMATION FOR SEQ ID NO: 16:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 3043 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-09-049-698-16

Query Match 60.3%; Score 132.6; DB 4; Length 3043;  
Best Local Similarity 75.3%; Pred. No. 5.2e-33;  
Matches 165; Conservative 0; Mismatches 54; Indels 0; Gaps 0;  
QY 1 CTATAGTGAATTTCTGTACAGAACAAACCAACAAAGAGCTCCAAACAAAGCAAAATC 60  
Db 747 CTGTGTTGAATTTTGTACGAAACAAACCAATATCAAGAGCTCCAGGCTACAAACA 806  
QY 61 AAAATGCAATCTCCGAGCACATGGGAAGTGATCCGTGATTCGTAGGACTTTAAGAAA 120  
Db 807 TAAAGTGCAATTTTAGAAGTACATGGAGGTGATTAGCAATTCGAGGATTTTAAACAA 866  
QY 121 CCACCTCTATGACACAGACCCAAATCCACCTTCTCTATGCTGCAGATTGGACAA 180  
Db 867 CCATACCCATGGTGACACCACTCTCCACCTGTCTCTCATTTGCTGAAGATCAGTCAA 926  
QY 181 GAATTGTGTTAGTCTTGACAAATCTGGAAGCATGG 219  
Db 927 GAATTGTGCTTAGTCTTTGATAGTCTGGAAGCATGG 965

RESULT 5  
US-09-049-698-18  
Sequence 18, Application US/09049698  
Patent No. 6368792  
GENERAL INFORMATION:  
APPLICANT: BILLING-MEDEL, PATRICIA A.  
APPLICANT: COHEN, MAURICE  
APPLICANT: COLPITTS, TRACEY L.  
APPLICANT: FRIEDMAN, PAULA N.  
APPLICANT: HAYDEN, MARK  
APPLICANT: KLASS, MICHAEL R.  
APPLICANT: ROBERTS-RAPP, LISA  
APPLICANT: RUSSELL, JOHN C.  
APPLICANT: STROUPE, STEPHEN D.  
TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
NUMBER OF SEQUENCES: 51

CORRESPONDENCE ADDRESS:  
ADDRESSEE: Abbott Laboratories  
STREET: 100 Abbott Park Road  
CITY: Abbott Park  
STATE: IL  
COUNTRY: USA  
ZIP: 60064-3500  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/049,698  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/828,856  
FILING DATE: 31-MAR-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Becker, Cheryl L.  
REGISTRATION NUMBER: 35,441  
REFERENCE/DOCKET NUMBER: 6068.US.P1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 847/935-1729  
TELEFAX: 847/938-2623  
TELEX:  
INFORMATION FOR SEQ ID NO: 18:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 3181 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-09-049-698-18

Query Match 60.3%; Score 132.6; DB 4; Length 3181;  
Best Local Similarity 75.3%; Pred. No. 5.3e-33;  
Matches 165; Conservative 0; Mismatches 54; Indels 0; Gaps 0;  
QY 1 CTATAGTGAATTTCTGTACAGAACAAACCAACAAAGAGCTCCAAACAAAGCAAAATC 60  
Db 758 CTGTGTTGAATTTTGTACGAAACAAACCAATATCAAGAGCTCCAGGCTACAAACA 817  
QY 61 AAAATGCAATCTCCGAGCACATGGGAAGTGATCCGTGATTCGTAGGACTTTAAGAAA 120  
Db 818 TAAAGTGCAATTTTAGAAGTACATGGAGGTGATTAGCAATTCGAGGATTTTAAACAA 877  
QY 121 CCACCTCTATGACACAGACCCAAATCCACCTTCTCTATGCTGCAGATTGGACAA 180  
Db 878 CCATACCCATGGTGACACCACTCTCCACCTGTCTCTCATTTGCTGAAGATCAGTCAA 937  
QY 181 GAATTGTGTTAGTCTTGACAAATCTGGAAGCATGG 219  
Db 938 GAATTGTGCTTAGTCTTTGATAGTCTGGAAGCATGG 976

RESULT 6  
US-09-049-698-3  
Sequence 3, Application US/09049698  
Patent No. 6368792  
GENERAL INFORMATION:  
APPLICANT: BILLING-MEDEL, PATRICIA A.  
APPLICANT: COHEN, MAURICE  
APPLICANT: COLPITTS, TRACEY L.  
APPLICANT: FRIEDMAN, PAULA N.  
APPLICANT: HAYDEN, MARK  
APPLICANT: KLASS, MICHAEL R.  
APPLICANT: ROBERTS-RAPP, LISA  
APPLICANT: RUSSELL, JOHN C.  
APPLICANT: STROUPE, STEPHEN D.  
TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
TITLE OF INVENTION: TRACT

NUMBER OF SEQUENCES: 51  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Abbott Laboratories  
STREET: 100 Abbott Park Road  
CITY: Abbott Park  
STATE: IL  
COUNTRY: USA  
ZIP: 60064-3500  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: Fast-Seq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/049,698  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/828,856  
FILING DATE: 31-MAR-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Becker, Cheryl L.  
REGISTRATION NUMBER: 35,441  
REFERENCE/DOCKET NUMBER: 6068.US.P1  
TELEPHONE: 847/935-1729  
TELEFAX: 847/938-2623  
TELEX:  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 231 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
FEATURE:  
NAME/KEY: base polymorphism  
LOCATION: 3  
OTHER INFORMATION: /notes " N' represents an A or G or  
OTHER INFORMATION: T or C polymorphism at this position"  
US-09-049-698-3

Query Match 57.0%; Score 125.4; DB 4; Length 231;  
Best Local Similarity 75.0%; Pred. No. 3.9e-31;  
Matches 156; Conservative 0; Mismatches 52; Indels 0; Gaps 0;  
QY 12 TTCTGTACAGAACAAACCAACAAAGAGCTCCAAACAAAGCAAAATCAAAAATGCAAT 71  
DB 1 TTNTGTACGAAAAAACCCATAATCAAGAGCTCCAAAGCTCAAAAACATAAAGTGCAAT 60  
QY 72 CTCGACACACATGGAGAGTATCGTGATTTCTGAGGACTTTAAGAAACCACTCCTATG 131  
DB 61 TTAGAGTACATGGAGAGTATAGCAATTTCTGAGGATTTTAAACACCAATACCCATG 120  
QY 132 ACAACACACGACCAAAATCCCACTTCTCATGCTGCAGATTGGACAAAGATTGTGTG 191  
DB 121 GTGACACCACTCTCCACCTGCTCTGAGGATTTTAAACACCAATACCCATG 120  
QY 192 TTAGTCTTGACAAATCTGGAAGCATGG 219  
DB 181 TTAGTCTTGATAAGTCTGGAAGCATGG 208

RESULT 7  
US-09-016-434-931  
Sequence 931, Application US/09016434  
Patent No. 6500938  
GENERAL INFORMATION:  
APPLICANT: Janice Au-Young  
APPLICANT: Jeffrey J. Seilhamer  
TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
PRIOR FILING DATE: PATHWAY GENE EXPRESSION  
NUMBER OF SEQUENCES: 1490  
CORRESPONDENCE ADDRESS:

ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
STREET: 3174 PORTER DRIVE  
CITY: PALO ALTO  
STATE: CALIFORNIA  
COUNTRY: USA  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/016,434  
FILING DATE: HEREWITH  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Zeller, Karen J.  
REGISTRATION NUMBER: 37,071  
REFERENCE/DOCKET NUMBER: PA-0002 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (650) 855-0555  
TELEFAX: (650) 845-4166  
INFORMATION FOR SEQ ID NO: 931:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 619 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: COLNNOT05  
CLONE: 775437  
US-09-016-434-931

Query Match 57.0%; Score 125.4; DB 4; Length 619;  
Best Local Similarity 75.0%; Pred. No. 5.7e-31;  
Matches 156; Conservative 0; Mismatches 52; Indels 0; Gaps 0;  
QY 12 TTCTGTACAGAACAAACCAACAAAGAGCTCCAAACAAAGCAAAATCAAAAATGCAAT 71  
DB 1 TTNTGTACGAAAAAACCCATAATCAAGAGCTCCAAAGCTCAAAAACATAAAGTGCAAT 60  
QY 72 CTCGACACACATGGAGAGTATCGTGATTTCTGAGGACTTTAAGAAACCACTCCTATG 131  
DB 61 TTAGAGTACATGGAGAGTATAGCAATTTCTGAGGATTTTAAACACCAATACCCATG 120  
QY 132 ACAACACACGACCAAAATCCCACTTCTCATGCTGCAGATTGGACAAAGATTGTGTG 191  
DB 121 GTGACACCACTCTCCACCTGCTCTGAGGATTTTAAACACCAATACCCATG 120  
QY 192 TTAGTCTTGACAAATCTGGAAGCATGG 219  
DB 181 TTAGTCTTGATAAGTCTGGAAGCATGG 208

RESULT 8  
US-09-193-562D-1  
Sequence 1, Application US/09193562D  
Patent No. 6309857  
GENERAL INFORMATION:  
APPLICANT: Pauli, Benedicht U.  
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
FILE REFERENCE: 18617.0052  
CURRENT APPLICATION NUMBER: US/09/193,562D  
CURRENT FILING DATE: 1998-11-17  
PRIOR APPLICATION NUMBER: US/60/065,922  
PRIOR FILING DATE: 1997-11-17  
NUMBER OF SEQ ID NOS: 47  
SEQ ID NO 1



**Qy** 175 GACAAAGAAATGTGTGTTTAGTCCTTGACAAATCGGAAGCATGGC 220  
| | | | | | | | | | | | | | | | | |  
**Dδ** 1031 GTGACAAAGTGGTCTGTTTAGTCCTGGATGTGTCCAGCAAGATGGC 1076  
| | | | | | | | | | | | | | | | | |

RESULT 12  
US-09-643-597-358  
; Sequence 358, Application US/09643597  
; Patent No. 6426072

APPLICANT: Wang, Tongtong  
APPLICANT: Fan, Liqun  
APPLICANT: Kalos, Michael D. S.  
APPLICANT: Bangur, Chaitanya S.  
APPLICANT: Hosken, Nancy  
APPLICANT: Fanger, Gary R.  
APPLICANT: Li, Samuel X.  
APPLICANT: Wang, Aijun  
APPLICANT: Skeiky, Yasir A. W.  
APPLICANT: Henderson, Robert A.  
APPLICANT: McNeill, Patricia D.

Query Match 36.7%; Score 80.8; DB 4; Length 2773;  
Best Local Similarity 63.3%; Pred. No. 2.3e-16;  
Matches 143; Conservative 0; Mismatches 77; Indels 6; Gaps 1;

61	AAAAATGC	AATCTCCG	AAGCA	CATGGG	AGATGAT	CTGTGAGG	AGCTTTT	AAGAAA	120
	Qy								
737	AGATGTG	CAGCCTC	AAGATGC	ATGGGAT	GTAAATC	ACAGACT	CTGTGACT	TTTCACCA	796
	Db								
121	CCACTCT	CTAT-----	GACACA	CACAGC	CCACCA	TCCACCTT	CTCATTTG	CTGCAGATTG	174
	Qy								
797	GCCTTTCC	ATAACGGG	ATGAGCTT	CACCTCT	CTCCCA	CATTTCTG	CTGTGAGG	CGCTG	856
	Db								

**Qy**

175 GACAAAGAAATTGTGTCCTTTTAGTCCCTTGACAAAATCTGGAAGCATGGC 220  
| | | | | | | | | | | | | | | | | | | | | |  
**Dβ**

857 GTGACAAAGTGGTCTGTTTTAGTGCTGGATGTGTCCAGCAAGATGGC 902  
| | | | | | | | | | | | | | | | | | | | | |

RESULT 13  
US-09-643-597-168  
; Sequence 168, Application US/09643597  
; Patent No. 6426072

GENERAL INFORMATION:

APPLICANT: Wang, Tongtong

APPLICANT: Fan, Liqun

APPLICANT: Kalos, Michael D.

APPLICANT: Bangur, Chaitanya S.

APPLICANT: Bosken, Nancy

APPLICANT: Fanger, Gary R.

APPLICANT: Li, Samuel X.

APPLICANT: Wang, Aijun

APPLICANT: Skeiky, Yasin A.W.

APPLICANT: Henderson, Robert A.

APPLICANT: McNeill, Patricia D.

TITLE OF INVENTION: COMPOSITION

; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER  
 ; FILE REFERENCE: 210121.455C11  
 ; CURRENT APPLICATION NUMBER: US/09/643,597  
 ; CURRENT FILING DATE: 2000-08-21

Query Match 36.7%; Score 80.8; DB 4; Length 2784;  
Best Local Similarity 63.3%; Pred. No. 2.3e-16;  
Matches .143; Conservative 0; Mismatches 77; Indels 6; Gaps 1;

1	CTATAGTTGAATTCCTGTACAGACAAAACACACAAACAAAGAGCTCCAAACACAGCAAAATC	60
Qy		
819	CTGTGGTTTGAATTTTGTATGCAAGTACCCACAAACCAAGAGCACCACCAACCTCAGAAAC	878
Db		
61	AAAAATGCAATCTCCGAAGCACATGCGGAAGTGATCCGTGATTCGAGGACTTTTAAGAAA	120
Qy		
879	AGATGTGAGCGCTCAGAAGATGCATGGGATGTATATCAGAGACTCTGCTGACTTTCACACA	938
Db		
121	CCACTCCTTAT-----GACAAACACAGGCCACCAATCCCACCTTCTCATTTGCTGCAGATTG	174
Qy		
939	GCTTTCCTCAACGCGGAGTCTGAGCTTCCACCTCCTCCACATCTCGCTGTGAGAGGCTG	998
Db		
175	GACAAAGAAATGTGTGTTTATGCTCTTGACAAATCTCGAAGCATGGC	220
Qy		
999	GTGACAAAGTGGTCTGTTTATGCTGTGGATGTGTCCAGCAAGATGGC	1044
Db		

RESULT 14  
US-09-480-884A-168  
; Sequence 168, Application US/09480884A  
; Patent No. 6482597

```

/ GENERAL INFORMATION:
/ APPLICANT: Wang, Tongtong
/ APPLICANT: Fan, Liqun
/ APPLICANT: Hosken, Nancy A.
/ APPLICANT: Kalos, Michael D.
/ APPLICANT: Fanger, Gary R.
/ TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
/ TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
/ FILE REFERENCE: 210121.455C6
/ CURRENT APPLICATION NUMBER: US/09/480, 884A
/ CURRENT FILING DATE: 2001-08-27
/ NUMBER OF SEQ ID NOS: 330
/ SOFTWARE: FAST-SEQ for Windows Version 3.0
/

```

Query Match 36.7%; Score 80.8; DB 4; Length 2784;  
Best Local Similarity 63.3%; Pred. No. 2.3e-16;  
Matches 143; Conservative 0; Mismatches 77; Indels 6; Gaps 1;

61	AAAAATGCAATCTCCGAAGCACATGGGAAGTATCCGTGATTCAGGACTTTTAAAGAAA	120
QY		
879	AGATGCGAGCCTCAGAAGTGCATGGGATGTAATCAAGACTCTGTGACTTTCACCA	938
DB		
121	CCACTCTTAT-----GACAAACACAGCGCCACCAATCCCACCTTCTCATTTGCTGCAGATTG	174
QY		
939	GCTTTTCCCATGAAGGGGACTGAGCTTCCAGCTCTCTCCCATTTCTCGCTGTAGAGCGCTG	998
DB		
175	GACAAAGAAATTGTGTGTTTATGCTCTTGACAAATCTGGGAAGCATGGC	220
QY		

Db 999 GTGACAAAGTGGTCTGCTTTAGTCTGGATGTGTCCAGCAAGATGGC 1044

## RESULT 15

US-09-542-615A-168  
; Sequence 168, Application US/09542615A

; Patent No. 6518256

; GENERAL INFORMATION:

; APPLICANT: Wang, Tongtong

; APPLICANT: Fan, Ligu

; APPLICANT: Kalos, Michael D.

; APPLICANT: Bangur, Chaitanya S.

; APPLICANT: Hosken, Nancy A.

; APPLICANT: Fanger, Gary R.

; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY

; FILE REFERENCE: 210121.455C8

; CURRENT APPLICATION NUMBER: US/09/542,615A

; CURRENT FILING DATE: 2000-04-14

; NUMBER OF SEQ ID NOS: 350

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 168

; LENGTH: 2784

; TYPE: DNA

; ORGANISM: Homo sapien

; US-09-542-615A-168

Query Match 36.7%; Score 80.8; DB 4; Length 2784;  
Best Local Similarity 63.3%; Pred. No. 2.3e-16;  
Matches 143; Conservative 0; Mismatches 77; Indels 6; Gaps 1;

Qy 1 CTATAGTTGAATTTCTGTACAGAACCAACCAAGAGCTCCAAACAAAGCAAAATC 60

Db 819 CTGTGGTTGAATTTTGTATGCAAGTACCCACACCAAGCACCACCAACCTACAGAAC 878

Qy 61 AAAATGCATCTCCGAGCACATGGGAAGTATCGTGATTTCTGAGGACTTTAAGAAA 120

Db 879 AGATGTGCAGCCTCAGAGTGCATGGGATGTAATCACAGACTCTGCTGACTTTTACCACA 938

Qy 121 CCACCTCCTAT-----GACAACACAGCCACCAATCCACCTTCTCATTTGCTGCAGATTG 174

Db 939 GCTTTCCCATGAACGGGACTGAGCTTCCACCTCTCTCCCAATTCCTGCTTAGAGGCTG 998

Qy 175 GACAAAGAAATTTGTGTTTGTAGTCTTGACAAATCTGGAAGCATGGC 220

Db 999 GTGACAAAGTGGTCTGCTTTAGTCTGGATGTGTCCAGCAAGATGGC 1044

Search completed: April 24, 2004, 05:01:02

Job time : 21.2224 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - protein search, using frame\_plus\_n2p model

Run on: April 21, 2004, 16:13:49 ; Search time 31.6735 Seconds  
(without alignments)  
3840.718 Million cell updates/sec

Title: US-09-049-696-5  
Perfect score: 393  
Sequence: 1 CTATAGTTGAATCTGTACA.....GACAATCTGAGCATGCG 220

Scoring table:  
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Xgapop 10.0 , Xgapext 0.5  
Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 1133595 seqs, 276475211 residues

Total number of hits satisfying chosen parameters: 2267190

Minimum DB seq length: 0  
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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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Database : Published Applications AA:

- 1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pcp.\*
- 2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pcp.\*
- 3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pcp.\*
- 4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pcp.\*
- 5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pcp.\*
- 6: /cgn2\_6/ptodata/2/pubpaa/PCTUS\_PUBCOMB.pcp.\*
- 7: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pcp.\*
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- 17: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pcp.\*
- 18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pcp.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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ALIGNMENTS

RESULT 1

US-10-106-698-6388  
; Sequence 6388, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:

; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10106,698  
; PRIOR FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 6388  
; LENGTH: 869

; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: MISC\_FEATURE

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3	386	98.2	914	9	US-09-922-217-1066	Sequence 1066, Ap
4	386	98.2	914	9	US-09-833-263-1066	Sequence 1066, Ap
5	386	98.2	914	9	US-09-981-353-192	Sequence 192, App
6	386	98.2	914	11	US-09-833-245-2054	Sequence 2054, Ap
7	386	98.2	914	13	US-10-025-380-1066	Sequence 1066, Ap
8	386	98.2	914	14	US-10-055-412B-28	Sequence 28, Appli
9	386	98.2	914	14	US-10-270-595-6	Sequence 6, Appli
10	386	98.2	914	14	US-10-235-994-26	Sequence 26, Appli
11	386	98.2	914	14	US-10-060-255-42	Sequence 42, Appli
12	386	98.2	914	15	US-10-369-214-133	Sequence 133, App
13	386	98.2	925	9	US-09-764-868-635	Sequence 635, App
14	386	98.2	925	14	US-10-106-698-6248	Sequence 6248, Ap
15	343	87.3	913	14	US-10-270-595-2	Sequence 2, Appli
16	343	87.3	913	15	US-10-369-214-132	Sequence 132, App
17	316	80.4	92	11	US-09-864-408A-8554	Sequence 8554, Ap
18	312	79.4	93	11	US-09-864-408A-6150	Sequence 6150, Ap
19	286	72.8	917	9	US-09-981-353-54	Sequence 54, Appli
20	286	72.8	917	13	US-10-025-167-41	Sequence 41, Appli
21	286	72.8	917	14	US-10-235-994-16	Sequence 16, Appli
22	286	72.8	919	9	US-09-989-723-379	Sequence 379, App
23	286	72.8	919	9	US-09-989-723-379	Sequence 379, App
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26	286	72.8	919	9	US-09-989-731-379	Sequence 379, App
27	286	72.8	919	9	US-09-989-732-379	Sequence 379, App
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29	286	72.8	919	9	US-09-990-443-379	Sequence 379, App
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37	286	72.8	919	9	US-09-990-444-379	Sequence 379, App
38	286	72.8	919	9	US-09-991-181-379	Sequence 379, App
39	286	72.8	919	9	US-09-989-730-379	Sequence 379, App
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42	286	72.8	919	10	US-09-989-734-379	Sequence 379, App
43	286	72.8	919	10	US-09-997-653-379	Sequence 379, App
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QY	3	ATAGTTGAAATTCGTACAGAACAAACACACAAACAAAGAGCTCCAAACAGCAAAATCAA	62
Db	246	lIeValGlUpHeCyThrGluGlnAsnHisasnLysGluAlaProAsnLysGlnAsnGln	265
QY	63	AAATGCAATCTCCGAAGCACATGGGAAGTGATCCGCTGATTCGTAGGACTTTTAAGAAAACC	122
Db	266	LysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGluAspPheLysLysThr	285
QY	123	ACTCCTATGACAAACACAGCCACCAATCCCACTTCTCATTCGTGCGAGATTGGACAAGA	182
Db	286	ThrProMetThrThrGlnProProAsnProThrPheSerLeuLeuGlnIleGlyGlnArg	305
QY	183	ATTGTGTGTTTAGTCTTGACAAATCTCGAAGCATG	218
Db	306	lIeValCysLeuValLeuAspLysSerGlySerMet	317
RESULT 6			
US-09-833-245-2054			
; Sequence 2054, Application US/09833245			
; Publication No. US20040010134A1			
; GENERAL INFORMATION:			
; APPLICANT: Human Genome Sciences, Inc.			
; TITLE OF INVENTION: Albumin Fusion Proteins			
; FILE REFERENCE: PF546PCT			
; CURRENT APPLICATION NUMBER: US/09/833,245			
; CURRENT FILING DATE: 2001-04-12			
; PRIOR APPLICATION NUMBER: 60/229, 358			
; PRIOR FILING DATE: 2000-04-12			
; PRIOR APPLICATION NUMBER: 60/256, 931			
; PRIOR FILING DATE: 2000-12-21			
; PRIOR APPLICATION NUMBER: 60/199, 384			
; PRIOR FILING DATE: 2000-04-25			
; NUMBER OF SEQ ID NOS: 2267			
; SOFTWARE: PatentIn Ver. 2.1			
; SEQ ID NO 2054			
; LENGTH: 914			
; TYPE: PRT			
; ORGANISM: Homo sapiens			
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Query Match:	98.22%	Indels:	0
DB:	11	Gaps:	0
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QY	63	AAATGCAATCTCCGAAGCACATGGGAAGTGATCCGCTGATTCGTAGGACTTTTAAGAAAACC	122
Db	266	LysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGluAspPheLysLysThr	285
QY	123	ACTCCTATGACAAACACAGCCACCAATCCCACTTCTCATTCGTGCGAGATTGGACAAGA	182
Db	286	ThrProMetThrThrGlnProProAsnProThrPheSerLeuLeuGlnIleGlyGlnArg	305
QY	183	ATTGTGTGTTTAGTCTTGACAAATCTCGAAGCATG	218
Db	306	lIeValCysLeuValLeuAspLysSerGlySerMet	317
RESULT 7			
US-10-025-380-1066			

; Sequence 1066, Application US/10025380  
; Publication No. US20020182191A1

## GENERAL INFORMATION:

APPLICANT: Xu, Jiangchun

APPLICANT: Lodes, Michael J.

APPLICANT: Secrist, Heather

APPLICANT: Benson, Darin R.

APPLICANT: Meagher, Madeleine Joy

APPLICANT: Stolk, John A.

APPLICANT: Wang, Tongtong

APPLICANT: Jiang, Yugu

APPLICANT: Smith, Carole L.

APPLICANT: King, Gordon E.

APPLICANT: Wang, Aijun

APPLICANT: Clapper, Jonathan D.

APPLICANT: Skeiky, Yasir A. W.

APPLICANT: Fanger, Gary R.

APPLICANT: Vedwick Thomas S.

APPLICANT: Carter, Darrick

; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE

FILE REFERENCE: 210121.471C14

CURRENT APPLICATION NUMBER: US/10/025,380

CURRENT FILING DATE: 2001-12-19

NUMBER OF SEQ ID NOS: 1129

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 1066

LENGTH: 914

TYPE: PRT

ORGANISM: Homo sapiens

US-10-025-380-1066

## Alignment Scores:

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Score:	386.00	Matches:	72
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	98.22%	Indels:	0
DB:	13	Gaps:	0

US-09-049-696-5 (1-220) x US-10-025-380-1066 (1-914)

QY	3	ATAGTTGAATTCGTGTACAGAACAAACCAACCAAGAGCTCCAAACGCAAAATCAA	62
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QY	63	AAATGCAATCTCCGAGCAGCATGGGAAGTGATCCGTGATTCGAGGACTTTAAGAAACC	122
DB	266	LysCysAsnLeuArgSerThrTrpGluValIleA:GspSerGluAspPheLysLysThr	285
QY	123	ACTCTATGACACACAGCAGCAATCCACCTTCTCATTCCTGCAGATTGCAAAAGA	182
DB	286	ThrProMetThrGlnProProAsnProThrPheSerLeuGlnIleGlyGlnArg	305
QY	183	ATTGTGTGTTAGTCTCTTGCACAAATCTGGAAGCATG	218
DB	306	lIeValCysLeuValLeuAspLysSerGlySerMet	317

## RESULT 8

US-10-055-412B-28

Sequence 28, Application US/10055412B

Publication No. US20030059861A1

## GENERAL INFORMATION:

APPLICANT: Pauli, Benedicht U.

TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules

FILE REFERENCE: 18617.0058

CURRENT APPLICATION NUMBER: US/10/055,412B

CURRENT FILING DATE: 2001-10-29

PRIOR APPLICATION NUMBER: US/09/193,562

PRIOR FILING DATE: 1998-11-17

PRIOR APPLICATION NUMBER: US/60/065,922

PRIOR FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 28

; LENGTH: 914

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-055-412B-28

## Alignment Scores:

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Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
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QY	63	AAATGCAATCTCCGAGCAGCATGGGAAGTGATCCGTGATTCGAGGACTTTAAGAAACC	122
DB	266	LysCysAsnLeuArgSerThrTrpGluValIleA:GspSerGluAspPheLysLysThr	285
QY	123	ACTCTATGACACACAGCAGCAATCCACCTTCTCATTCCTGCAGATTGCAAAAGA	182
DB	286	ThrProMetThrGlnProProAsnProThrPheSerLeuGlnIleGlyGlnArg	305
QY	183	ATTGTGTGTTAGTCTCTTGCACAAATCTGGAAGCATG	218
DB	306	lIeValCysLeuValLeuAspLysSerGlySerMet	317

## RESULT 9

US-10-270-595-6

Sequence 6, Application US/10270595

Publication No. US20030078409A1

## GENERAL INFORMATION:

APPLICANT: Magainin Pharmaceuticals, Inc.

TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating

TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related

FILE REFERENCE: 36870-5073-WO

CURRENT APPLICATION NUMBER: US/10/270,595

CURRENT FILING DATE: 2002-10-15

PRIOR APPLICATION NUMBER: US/09/623,624

PRIOR FILING DATE: 2000-09-06

PRIOR APPLICATION NUMBER: PCT/US99/04703

PRIOR FILING DATE: 1999-03-03

PRIOR APPLICATION NUMBER: US 08/697,360

PRIOR FILING DATE: 1996-08-23

PRIOR APPLICATION NUMBER: US 08/697,419

PRIOR FILING DATE: 1996-08-23

PRIOR APPLICATION NUMBER: US 08/697,440

PRIOR FILING DATE: 1996-08-23

PRIOR APPLICATION NUMBER: US 08/697,471

PRIOR FILING DATE: 1996-08-23

PRIOR APPLICATION NUMBER: US 08/697,471

PRIOR FILING DATE: 1996-08-23

PRIOR APPLICATION NUMBER: US 08/697,472

PRIOR FILING DATE: 1996-08-23

PRIOR APPLICATION NUMBER: US 08/697,473

PRIOR FILING DATE: 1996-08-23

PRIOR APPLICATION NUMBER: US 08/702,105

PRIOR FILING DATE: 1996-08-23

Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 18

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 6

LENGTH: 914

TYPE: PRT

ORGANISM: Homo sapiens

US-10-270-595-6

Alignment Scores:		
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Percent Similarity:	100.00%	Conservative: 0
Best Local Similarity:	100.00%	Mismatches: 0
Query Match:	98.22%	Indels: 0
DB:	14	Gaps: 0

US-09-049-696-5 (1-220) x US-10-270-595-6 (1-914)

Qy	3	ATAGTTGAAATTC	GTACAGAACAAACACACA	AAAGAGCTCCAAAC	ACAGCAAAATCAA	62
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Qy	63	AAATGCAATCT	CCGAAGCACATG	GGAAGTATCCG	TGATTCAGACACTTT	122
Db	266	LysCysAsnLeu	ArgSerThrTrpGlu	ValIleArgAsp	SerGluAspPheLys	285
Qy	123	ACTCCTATGACA	CACACACGCCAC	CCAAATCCCAC	TCTTCATTCCTGCAG	182
Db	286	ThrProMetThr	ThrGlnProPro	AsnProThrPhe	SerLeuLeuGlnIle	305
Qy	183	ATTGTGGTTT	TAGCTTCGACAA	ATCTCGAAGCATG		218
Db	306	IleValCysLeu	ValIleAspLys	SerGlySerMet		317

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RESULT 10
US-10-235-994-26
; Sequence 26, Application US/10235994
; Publication No. US20030101002A1
; GENERAL INFORMATION:
; APPLICANT: Barthna, Gabor
; APPLICANT: Walker, Michael
; TITLE OF INVENTION: METHODS
; FILE REFERENCE: ICYTP012
; CURRENT APPLICATION NUMBER: US/10/235,994
; CURRENT FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: US/10/003,608
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,081
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Human
US-10-235-994-26

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Alignment Scores:	
Pred. No.:	2.08e-39
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Percent Similarity:	100.00%
Best Local Similarity:	100.00%
Query Match:	98.22%
DB:	14
Length:	914
Matches:	72
Conservative:	0
Mismatches:	0
Indels:	0
Gaps:	0

US-09-049-696-5 (1-220) x US-10-235-994-26 (1-914)

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Qy	63	AAATGCAATCTCCGAACACATGGGAAGTATCCGTGATCTGAGGACTTTTAAAGAAACC	122
Db	266	LysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGluAspPheLysLysThr	285
Qy	123	ACTCCTATGACAAACAGCCACCAATCCCACCTTCTCATTCCTCGATTCGACAAAGA	182
Db	286	ThrProMetThrThrGlnProProAsnProThrPheSerLeuLeuGlnIleGlyGlnArg	305
Qy	183	ATTGTGTGTTTTAGTCTCTGACAAATCTCGAAGCATG	218

Db  
306 ileValCysLeuValIleuAspLysSerGlySerMet 317

## RESULT 11

US-10-060-255-42  
; Sequence 42, Application US/10060255  
; Publication No. US20030113840A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 25 Human secreted proteins  
; FILE REFERENCE: P2042P1  
; CURRENT APPLICATION NUMBER: US/10/060,255  
; CURRENT FILING DATE: 2002-02-01  
; PRIOR APPLICATION NUMBER: 09/781,417  
; PRIOR FILING DATE: 2001-02-13  
; PRIOR APPLICATION NUMBER: PCT/US00/22325  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: 60/149,182  
; PRIOR FILING DATE: 1999-08-17  
; NUMBER OF SEQ ID NOS: 86  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 42  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-060-255-42

[illegible]

US-09-049-696-5 (1-220) X US-10-060-255-42 (1-914)

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Db	246	IleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaProAsnLysGlnAsnGln					2655
Qy	63	AAATGCAATCTCCGAACACACATGGAGTGTATCCGTGATTTCTGAGCAGCTTTTAAGAAAACC					1222
Db	266	LysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGluAspPheLysLysThr					285
Qy	123	ACTCCTATGACAAACACAGCCACCAATCCCACTTCTCATTTCTGCTGCAGATTTCGACAAAGA					182
Db	286	ThrProMetThrThrGlnProProAsnProThrPheSerLeuLeuGlnIleGlyGlnArg					305
Qy	183	ATTGTGTTTTCCTTTCCTTGCACAAATCTGGAAGCATG					218
Db	306	IleValCysValLeuValLeuAspLysSerGlySerMet					317

## RESULT 12

```

US-10-369-214-133
; Sequence 133, Application US/10369214
; Publication No. US2003032037A1
; GENERAL INFORMATION:
; APPLICANT: Groot, Pieter C.
; APPLICANT: Berghenegouwen van, Bram J.
; APPLICANT: Oosterhout van, Antoon J.M.
; TITLE OF INVENTION: Genes involved in immune related responses observed
; TITLE OF INVENTION: with asthma
; FILE REFERENCE: P53837U500
; CURRENT APPLICATION NUMBER: US/10/369,214
; CURRENT FILING DATE: 2003-02-15
; PRIOR APPLICATION NUMBER: EP 00202867.8
; PRIOR FILING DATE: 2000-08-16
; PRIOR APPLICATION NUMBER: PCT/NL01/00610
; PRIOR FILING DATE: 2001-08-16
; NUMBER OF SEQ ID NOS: 139
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 133

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; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 913
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-270-595-2

Alignment Scores:
Pred. No.:      5,17e-34      Length:      913
Score:          343.00      Matches:      62
Percent Similarity: 95.83%      Conservative: 7
Best Local Similarity: 86.11%      Mismatches: 3
Query Match:      87.28%      Indels:      0
DB:              14          Gaps:          0

US-09-049-696-5 (1-220) x US-10-270-595-2 (1-913)

Qy      3  ATAGTTGAATTCGTACAGACAAACCAAGAGCTCCAAACAGCAATCAA 62
Db      247 ValValGluPheCysThrGluLysAsnHisAsnGlnGluAlaProAsnAspGlnAsnGln 266
Qy      63  AAATGCAATCTCCGAGACATGGGAAGTCATCCGTGATTCTGAGGACTTTAAGAAACC 122
Db      267 ArgCysAsnLeuArgSerThrTrpGluValIleGlnGluSerGluAspPheLysGlnThr 286
Qy      123 ACTCCTATGACACACAGCCACCAATCCACCTTCTCATTGCTGAGATTGACAAAGA 182
Db      287 ThrProMetThrAlaGlnProProAlaProThrPheSerLeuLeuGlnIleGlyGlnArg 306
Qy      183 ATTGTGTGTTTGTCTTGCACAAATCTGGAAGCATG 218
Db      307 IleValCysLeuValLeuAspLysSerGlySerMet 318
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Search completed: April 21, 2004, 16:38:46  
Job time : 47.6735 secs

**This Page Blank (uspto)**

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - protein search, using frame\_plus\_n2p model

Run on: April 21, 2004, 16:13:29 ; Search time 11.2265 Seconds  
(without alignments)  
2023.381 Million cell updates/sec

Title: US-09-049-696-5  
Perfect score: 393  
Sequence: 1 CTTATGTTGAATCTCTGTACA.....GACAAATCTGGAGCATGCGC 220

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Xgapop 10.0 , Xgapext 0.5  
Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 778828

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi  
-LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15  
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-USER=US09049696 @CGN 1.1 321 @runat\_21042004\_154838\_21255 -NCPU=6 -ICPU=3  
-NO WMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPLOCK=100 -LONGLOG  
-DEV\_TIMEOUT=120 -WARN\_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued Patents AA:  
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3: /cgn2\_6/ptodata/2/iaa/6A COMB.pcp.\*  
4: /cgn2\_6/ptodata/2/iaa/6B COMB.pcp.\*  
5: /cgn2\_6/ptodata/2/iaa/PTCUS COMB.pcp.\*  
6: /cgn2\_6/ptodata/2/iaa/backfiles1.pcp.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	386	98.2	914	4	US-09-193-562D-28
2	386	98.2	914	4	US-09-623-624-6
3	343	87.3	913	4	US-09-623-624-2
4	286	72.8	917	4	US-09-049-698-41
5	252	64.1	902	4	US-09-193-562D-34
6	249.5	63.5	1000	4	US-09-193-562D-30
7	249	63.4	342	4	US-09-193-562D-13
8	249	63.4	795	4	US-09-193-562D-11
9	249	63.4	821	4	US-09-193-562D-12
10	249	63.4	905	4	US-09-193-562D-2
11	248	63.1	903	4	US-09-193-562D-46
12	248	63.1	903	4	US-09-623-624-18

13	232	59.0	943	4	US-09-193-562D-32	Sequence 32, Appl
14	230	58.5	943	4	US-09-623-624-4	Sequence 4, Appl
15	229	58.3	592	4	US-09-643-597-169	Sequence 169, App
16	229	58.3	592	4	US-09-480-884A-169	Sequence 169, App
17	229	58.3	592	4	US-09-542-615A-169	Sequence 169, App
18	229	58.3	592	4	US-09-606-421B-169	Sequence 169, App
19	229	58.3	791	4	US-09-643-597-170	Sequence 170, App
20	229	58.3	791	4	US-09-480-884A-170	Sequence 170, App
21	229	58.3	791	4	US-09-542-615A-170	Sequence 170, App
22	229	58.3	791	4	US-09-606-421B-170	Sequence 170, App
23	229	58.3	920	4	US-09-643-597-357	Sequence 357, App
24	229	58.3	943	4	US-09-643-597-161	Sequence 161, App
25	229	58.3	943	4	US-09-480-884A-161	Sequence 161, App
26	229	58.3	943	4	US-09-542-615A-161	Sequence 161, App
27	229	58.3	943	4	US-09-606-421B-161	Sequence 161, App
28	229	58.3	943	4	US-09-221-107-161	Sequence 161, App
29	216	55.0	942	4	US-09-919-172-87	Sequence 87, Appl
30	71.5	18.2	3079	5	PCT-US94-00198-4	Sequence 4, Appl
31	69	17.4	1912	4	US-09-495-714C-2	Sequence 2, Appl
32	69	17.4	1977	4	US-09-495-714C-4	Sequence 4, Appl
33	69	17.4	1985	4	US-09-495-714C-6	Sequence 6, Appl
34	64	16.3	579	4	US-09-173-151A-2	Sequence 2, Appl
35	64	16.3	686	4	US-09-173-151A-4	Sequence 4, Appl
36	63	16.0	357	1	US-08-145-006C-12	Sequence 12, Appl
37	63	16.0	357	5	PCT-US94-00545-12	Sequence 12, Appl
38	62.5	15.9	404	4	US-09-517-60S-2	Sequence 2, Appl
39	62	15.8	1645	4	US-09-976-594-769	Sequence 769, App
40	62	15.6	1872	6	5386025-6	Patent No. 5386025
41	62	15.6	1873	1	US-08-435-675B-4	Sequence 4, Appl
42	62	15.6	1873	1	US-08-336-257A-7	Sequence 7, Appl
43	62	15.6	2161	1	US-07-745-208A-2	Sequence 2, Appl
44	62	15.6	2161	1	US-08-455-543A-49	Sequence 49, Appl
45	62	15.6	2161	1	US-08-455-543A-51	Sequence 51, Appl

ALIGNMENTS

RESULT 1  
US-09-193-562D-28  
; Sequence 28, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedict U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 28  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-193-562D-28

Alignment Scores:					
Pred. No.:	6,07e-43	Length:	914		
Score:	386.00	Matches:	72		
Percent Similarity:	100.00%	Conservative:	0		
Best Local Similarity:	100.00%	Mismatches:	0		
Query Match:	98.22%	Indels:	0		
DB:	4	Gaps:	0		
US-09-049-696-5 (1-220) x US-09-193-562D-28 (1-914)					
QY	3	ATAGTTGAATCTGTACAGAACAAACCAACAAAGAGCTCCAAACAGCAAAATCAA	62		
Db	246	IleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaProAsnLysGlnAsnGln	265		
QY	63	AAATGCAATCTCCGAGACCATGGGAAGTGATCCGTGATCTTGAGACCTTTAAGAAACC	122		





QY 183 ATTGCTGTTAGTCTTGCACAAATCTGAAGCATG 218  
Db 307 ILeValCysLeuValLeuAspLysSerGlySerMet 318

RESULT 4  
US-09-049-698-41

; Sequence 41, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITTS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLASS, MICHAEL R.  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park  
; STATE: IL  
; COUNTRY: USA  
; ZIP: 60064-3500  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/049,698  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/828,856  
; FILING DATE: 31-MAR-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Becker, Cheryl L.  
; REGISTRATION NUMBER: 35,441  
; REFERENCE/DOCKET NUMBER: 6068.US.P1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 847/935-1729  
; TELEFAX: 847/938-2623  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 41:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 917 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: No. 6368792e  
US-09-049-698-41

Alignment Scores:  
Pred. No.: 1,34e-29 Length: 917  
Score: 286.00 Matches: 53  
Percent Similarity: 81.94% Conservative: 6  
Best Local Similarity: 73.61% Mismatches: 13  
Query Match: 72.77% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-5 (1-220) x US-09-049-698-41 (1-917)  
QY 3 ATAGTTGAATTCGTACAGAACAAACCAAGAGCTCCAAACGCAAAATCAA 62  
Db 246 ValValGluPheCysAsnGluThrHisAsnGlnGluAlaProSerLeuGlnAsnIle 265  
QY 63 AAATGCAATCTCCGAGACCATGGGAAGTATCCGTGATTCTGAGGACTTTAAGAAACC 122

Db 266 LysCysAsnPheArgSerThrTrpGluValIleSerAsnSerGluAspPheLysAsnThr 285  
QY 123 ACTCTTATGACAAACACAGCCACCAATCCACCTTCTCATTTGTCGAGATTGACAAAGA 182  
Db 286 IleProMetValThrProProProValPheSerLeuLeuLysIleSerGlnArg 305  
QY 183 ATTGCTGTTAGTCTTGCACAAATCTGAAGCATG 218  
Db 306 ILeValCysLeuValLeuAspLysSerGlySerMet 317

RESULT 5  
US-09-193-562D-34  
; Sequence 34, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 34  
; LENGTH: 902  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-09-193-562D-34

Alignment Scores:  
Pred. No.: 4.57e-25 Length: 902  
Score: 252.00 Matches: 48  
Percent Similarity: 75.68% Conservative: 8  
Best Local Similarity: 64.88% Mismatches: 16  
Query Match: 64.12% Indels: 2  
DB: 4 Gaps: 1

US-09-049-696-5 (1-220) x US-09-193-562D-34 (1-902)

QY 3 ATAGTTGAATTCGTACAGAACAAACCAAGAGCTCCAAACGCAAAATCAA 62  
Db 246 ValValGluPheCysThrGluAsnAsnHisAsnAlaGluAlaProAsnLeuGlnAsnLys 265  
QY 63 AAATGCAATCTCCGAGACCATGGGAAGTATCCGTGATTCTGAGGACTTTAAGAAACC 122  
Db 266 MetCysAsnArgSerThrTrpAspValIleLysThrSerAlaAspPheGlnAsnAla 285  
QY 123 ACTCTATG-----ACAAACAGCCACCAATCCACCTTCTCATTTGTCGAGATTGGA 176  
Db 286 ProProMetArgGlyThrGluAlaProProProThrPheThrLeuLeuLysSerArg 305  
QY 177 CAAGAATTTGTGTTAGTCTTGCACAAATCTGAAGCATG 218  
Db 306 ArgArgValValCysLeuValLeuAspLysSerGlySerMet 319

RESULT 6  
US-09-193-562D-30  
; Sequence 30, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 30  
; LENGTH: 1000





; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,110
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,168
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/980,872
; PRIOR FILING DATE: 1997-12-01
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 18
; LENGTH: 903
; TYPE: PRT
; ORGANISM: Bos taurus
US-09-623-624-18

Alignment Scores:
Pred. No.: 1,56e-24 Length: 903
Score: 248.00 Matches: 47
Percent Similarity: 77.03% Conservative: 10
Best Local Similarity: 63.51% Mismatches: 15
Query Match: 63.10% Indels: 2
DB: 4 Gaps: 1

US-09-049-696-5 (1-220) x US-09-623-624-18 (1-903)
QY 3 ATAGTTGAATTCGTACAGACAAACCAAGAGCTCCAAAGCAAAATCAA 62
::: ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 246 ValThrGluPheCysThrHisAsnValGluAlaProAsnLeuGlnAsnLys 265
QY 63 AAATGCAATCTCCGAGCAGATGGAGTATCCGTGATTCGAGACTTTAAGAAACC 122
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 266 MetCysAsnGlySerThrTrpAspValIleMetAsnSerThrAspPheGlnAsnThr 285
QY 123 ACTCTATGAC-----ACACAGCCCAACAAATCCACCTTCTCATTTGTCGAGATTGGA 176
::: ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 286 SerProMetThrGluMetAsnProProThrGlnProThrPheSerLeuLeuLysSerLys 305
QY 177 CAAAGAATTGTGTTAGTCTCTGACAAATCTGGAAGCATG 218
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 306 GlnArgValValCysLeuValLeuAspLysSerGlySerMet 319

RESULT 13
US-09-193-562D-32
; Sequence 32, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 32
; LENGTH: 943
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-193-562D-32

Alignment Scores:
Pred. No.: 2.16e-22 Length: 943
Score: 232.00 Matches: 44

Percent Similarity: 70.27% Conservative: 8
Best Local Similarity: 59.46% Mismatches: 20
Query Match: 59.03% Indels: 2
DB: 4 Gaps: 1

US-09-049-696-5 (1-220) x US-09-193-562D-32 (1-943)
QY 3 ATAGTTGAATTCGTACAGACAAACCAAGAGCTCCAAAGCAAAATCAA 62
::: ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 249 ValValGluPheCysAsnAlaSerThrHisGlnGluAlaProAsnLeuGlnAsnGln 268
QY 63 AAATGCAATCTCCGAGCAGATGGAGTATCCGTGATTCGAGACTTTAAGAAACC 122
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 269 MetCysSerLeuArgSerAlaTrpAspValIleThrAspSerAlaAspPheHisSer 288
QY 123 ACTCTATG-----ACACAGCAGCCCAACAAATCCACCTTCTCATTTGTCGAGATTGGA 176
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 289 PheProMetAsnGlyThrGluLeuProProProThrPheSerLeuValGlnAlaGly 308
QY 177 CAAAGAATTGTGTTAGTCTCTGACAAATCTGGAAGCATG 218
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 309 AspLysValValCysLeuValLeuAspValSerSerLysMet 322

RESULT 14
US-09-623-624-4
; Sequence 4, Application US/09623624
; Patent No. 6576434
; GENERAL INFORMATION:
; APPLICANT: Magainin Pharmaceuticals, Inc.
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related
; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/09/623,624
; CURRENT FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,110
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,168
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/980,872
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 943
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-623-624-4

Alignment Scores:
Pred. No.: 3.98e-22 Length: 943
Score: 230.00 Matches: 43
Percent Similarity: 70.27% Conservative: 9
Best Local Similarity: 58.11% Mismatches: 20
Query Match: 58.52% Indels: 2

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DB: 4 Gaps: 1
US-09-049-696-5 (1-220) x US-09-623-624-4 (1-943)
QY 3 ATAGTTGAATTCGTACAGAACAAACCAACAAAGAGCTCCAAACAAAGCAAAATCAA 62
   ::::::::::::::::::::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db 249 ValValGluPheCysAsnAlaSerThrHisAsnGlnGluAlaProAsnLeuGlnAsnGln 268
QY 63 AAATGCAATCTCCGAAGCATGGGAGTGATCCGGTGATTTCTGAGGACTTTAAGAAAACC 122
   ::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db 269 MetCysSerLeuArgSerAlaIleThrAspSerAlaAspPheHisHisSer 288
QY 123 ACTCCTATG-----ACAACACAGCCACCACCAATCCACCTTCTCATTTGTCGAGATTGGA 176
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Db 289 PheProMetAsnGlyThrGluLeuProProProThrPheSerLeuValGluAlaGly 308
QY 177 CAAAGAATTGTGTTAGTCTTGTGACAAATCTGGAAGCATG 218
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Db 309 AspLysValValCysLeuValLeuAspAlaSerSerLysMet 322

RESULT 15
US-09-643-597-169
; Sequence 169, Application US/09643597
; Patent No. 6426072
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy R.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Henderson, Robert A.
; APPLICANT: McNeill, Patricia D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.455C11
; CURRENT APPLICATION NUMBER: US/09/643,597
; CURRENT FILING DATE: 2000-08-21
; NUMBER OF SEQ ID NOS: 369
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 169
; LENGTH: 592
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-643-597-169

Alignment Scores:
Pred. No.: 4,79e-22 Length: 592
Score: 229.00 Matches: 43
Percent Similarity: 70.27% Conservative: 9
Best Local Similarity: 58.11% Mismatches: 20
Query Match: 58.27% Indels: 2
DB: 4 Gaps: 1

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Db 249 ValValGluPheCysAsnAlaSerThrHisAsnGlnGluAlaProAsnLeuGlnAsnGln 268
QY 63 AAATGCAATCTCCGAAGCATGGGAGTGATCCGGTGATTTCTGAGGACTTTAAGAAAACC 122
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Db 269 MetCysSerLeuArgSerAlaIleThrAspSerAlaAspPheHisHisSer 288
QY 123 ACTCCTATG-----ACAACACAGCCACCACCAATCCACCTTCTCATTTGTCGAGATTGGA 176
   ::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db 289 PheProMetAsnGlyThrGluLeuProProProThrPheSerLeuValGluAlaGly 308
QY 177 CAAAGAATTGTGTTAGTCTTGTGACAAATCTGGAAGCATG 218
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Db 309 AspLysValValCysLeuValLeuAspValSerSerLysMet 322

Search completed: April 21, 2004, 16:21:58

Job time : 13.2265 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 24, 2004, 04:05:52 ; Search time 96.8639 Seconds  
(without alignments)  
8424.829 Million cell updates/sec

Title: US-09-049-696-4  
Perfect score: 181  
Sequence: 1 CAAAAGATGCACATTCAATA.....ACAAGCAAAATCAAAAATGC 181

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 2907579 seqs, 2254313464 residues

Total number of hits satisfying chosen parameters: 5815158

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications NA:\*

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- 2: /cgn2\_6/prodata/2/pubpna/PCT\_NEW\_PUB.seq:\*
- 3: /cgn2\_6/prodata/2/pubpna/US06\_NEW\_PUB.seq:\*
- 4: /cgn2\_6/prodata/2/pubpna/US06\_PUBCOMB.seq:\*
- 5: /cgn2\_6/prodata/2/pubpna/US07\_NEW\_PUB.seq:\*
- 6: /cgn2\_6/prodata/2/pubpna/PCTUS\_PUBCOMB.seq:\*
- 7: /cgn2\_6/prodata/2/pubpna/US08\_NEW\_PUB.seq:\*
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- 9: /cgn2\_6/prodata/2/pubpna/US09\_PUBCOMB.seq:\*
- 10: /cgn2\_6/prodata/2/pubpna/US09B\_PUBCOMB.seq:\*
- 11: /cgn2\_6/prodata/2/pubpna/US09C\_PUBCOMB.seq:\*
- 12: /cgn2\_6/prodata/2/pubpna/US09\_NEW\_PUB.seq:\*
- 13: /cgn2\_6/prodata/2/pubpna/US09\_NEW\_PUB.seq:\*
- 14: /cgn2\_6/prodata/2/pubpna/US10A\_PUBCOMB.seq:\*
- 15: /cgn2\_6/prodata/2/pubpna/US10B\_PUBCOMB.seq:\*
- 16: /cgn2\_6/prodata/2/pubpna/US10C\_PUBCOMB.seq:\*
- 17: /cgn2\_6/prodata/2/pubpna/US10\_NEW\_PUB.seq:\*
- 18: /cgn2\_6/prodata/2/pubpna/US60\_NEW\_PUB.seq:\*
- 19: /cgn2\_6/prodata/2/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	181	100.0	2854	15	US-10-106-698-1971
2	181	100.0	3111	9	US-09-823-356-25
3	181	100.0	3111	9	US-09-823-356-25
4	181	100.0	3111	15	US-10-235-994-25
5	181	100.0	3267	9	US-09-764-868-22
6	181	100.0	4569	13	US-09-867-034-3
7	181	100.0	4569	13	US-10-276-115-3
8	180.6	99.8	2745	15	US-10-270-595-5
9	180.6	99.8	3109	15	US-10-106-698-2111
10	179.4	99.1	2867	15	US-10-106-698-351
11	179.4	99.1	3007	15	US-10-055-412B-27
12	179.4	99.1	3311	9	US-09-922-217-1056
13	179.4	99.1	3311	9	US-09-833-263-1056
14	179.4	99.1	3311	14	US-10-025-380-1056

15	179.4	99.1	3311	15	US-10-393-590-11	Sequence 11, Appl
16	179.4	99.1	3311	15	US-10-393-590-12	Sequence 12, Appl
17	179.4	99.1	3311	15	US-10-393-590-46	Sequence 46, Appl
18	179.4	99.1	3311	15	US-10-393-590-47	Sequence 47, Appl
19	179.4	99.1	3311	15	US-10-393-567-11	Sequence 11, Appl
20	179.4	99.1	3311	15	US-10-393-567-12	Sequence 12, Appl
21	179.4	99.1	3311	15	US-10-393-567-46	Sequence 46, Appl
22	179.4	99.1	3311	15	US-10-393-567-47	Sequence 47, Appl
23	179.4	99.1	3311	15	US-10-394-087-11	Sequence 11, Appl
24	179.4	99.1	3311	15	US-10-394-087-12	Sequence 12, Appl
25	179.4	99.1	3311	15	US-10-394-087-46	Sequence 46, Appl
26	179.4	99.1	3311	15	US-10-394-087-47	Sequence 47, Appl
27	128.4	70.9	171	15	US-10-066-543-2189	Sequence 2189, Ap
28	94.8	52.4	2931	15	US-10-270-595-1	Sequence 1, Appl
29	80.8	44.6	2754	15	US-10-345-680-33	Sequence 33, Appl
30	80.8	44.6	3043	14	US-10-025-167-16	Sequence 16, Appl
31	80.8	44.6	3169	9	US-09-981-353-53	Sequence 53, Appl
32	80.8	44.6	3169	15	US-10-235-994-15	Sequence 15, Appl
33	80.8	44.6	3181	14	US-10-025-167-18	Sequence 18, Appl
34	80.8	44.6	3195	10	US-09-867-034-22	Sequence 22, Appl
35	80.8	44.6	3195	13	US-10-276-115-22	Sequence 22, Appl
36	80.8	44.6	3196	15	US-10-158-646-39	Sequence 39, Appl
37	80.8	44.6	3199	13	US-10-276-774-993	Sequence 993, App
38	80.8	44.6	3204	15	US-10-345-680-31	Sequence 31, Appl
39	80.8	44.6	3207	15	US-10-101-510-660	Sequence 660, App
40	80.8	44.6	3218	16	US-10-087-080-33	Sequence 33, Appl
41	80.8	44.6	3265	9	US-09-989-723-378	Sequence 378, App
42	80.8	44.6	3265	9	US-09-989-723-378	Sequence 378, App
43	80.8	44.6	3265	9	US-09-989-279-378	Sequence 378, App
44	80.8	44.6	3265	9	US-09-989-727-378	Sequence 378, App
45	80.8	44.6	3265	9	US-09-989-731-378	Sequence 378, App

ALIGNMENTS

RESULT 1

US-10-106-698-1971  
; Sequence 1971, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:

; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: Patent in Ver. 3.0  
; SEQ ID NO 1971  
; LENGTH: 2854  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-106-698-1971

Query Match 100.0%; Score 181; DB 15; Length 2854;  
Best Local Similarity 100.0%; Pred. No. 3.9e-42;  
Matches 181; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAAAAGATGCACATTCAATAAAAGTACAGGACTCTATGAAAAAGGATGTGAGTTTCTTCT 60

655 CAAAAGATGCACATTCAATAAAAGTACAGGACTCTATGAAAAAGGATGTGAGTTTCTTCT 714

QY 61 CCAATCCCGCAGCGGAGAGCTTCTATATGTTTGCACACATGTTGATTCATAGT 120

715 CCAATCCCGCAGCGGAGAGCTTCTATATGTTTGCACACATGTTGATTCATAGT 774

QY 121 TGAATTCTGTACAGAACCAAAACCAACAAAGAGCTCCAAACAAAGCAAAATCAAAAATG 180

Db 775 TGAATTCCTGACAGCAAAACCAACAAAGAGCTCCAAACAGCAAAATCAAAAATG 834  
QY 181 C 181  
Db 835 C 835

## RESULT 2

US-09-823-356-25  
; Sequence 25, Application US/09823356  
; Patent No. US20010025098A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Kaser, Matthew R.  
; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
; FILE REFERENCE: PF-0489-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823,356  
; CURRENT FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/039,307  
; PRIOR FILING DATE: 1998 March 13  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PERL Program  
; SEQ ID NO 25  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775  
US-09-823-356-25

Query Match 100.0%; Score 181; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 4.1e-42;  
Matches 181; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 CAAAAGATGCACATTCATTAAGTAACAGGACTCTATGAAAAGGATGTGAGTTGTTCT 60  
Db 654 CAAAAGATGCACATTCATTAAGTAACAGGACTCTATGAAAAGGATGTGAGTTGTTCT 713  
QY 61 CCAATCCCGCAGACGGAGAGGCTTCTATATGTTTGCACAACTGTTGATTTCTATAGT 120  
Db 714 CCAATCCCGCAGACGGAGAGGCTTCTATATGTTTGCACAACTGTTGATTTCTATAGT 773  
QY 121 TGAATTCCTGACAGCAAAACCAACAAAGAGCTCCAAACAGCAAAATCAAAAATG 180  
Db 774 TGAATTCCTGACAGCAAAACCAACAAAGAGCTCCAAACAGCAAAATCAAAAATG 833  
QY 181 C 181  
Db 834 C 834

## RESULT 3

US-09-981-353-191  
; Sequence 191, Application US/09981353  
; Patent No. US20020160382A1  
; GENERAL INFORMATION:  
; APPLICANT: Lasek, Amy W.  
; APPLICANT: Jones, David A.  
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
; FILE REFERENCE: PA-0038 US  
; CURRENT APPLICATION NUMBER: US/09/981,353  
; CURRENT FILING DATE: 2001-10-11  
; NUMBER OF SEQ ID NOS: 194

; SOFTWARE: PERL Program  
; SEQ ID NO 191  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CB1  
US-09-981-353-191

Query Match 100.0%; Score 181; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 4.1e-42;  
Matches 181; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 CAAAAGATGCACATTCATTAAGTAACAGGACTCTATGAAAAGGATGTGAGTTGTTCT 60  
Db 654 CAAAAGATGCACATTCATTAAGTAACAGGACTCTATGAAAAGGATGTGAGTTGTTCT 713  
QY 61 CCAATCCCGCAGACGGAGAGGCTTCTATATGTTTGCACAACTGTTGATTTCTATAGT 120  
Db 714 CCAATCCCGCAGACGGAGAGGCTTCTATATGTTTGCACAACTGTTGATTTCTATAGT 773  
QY 121 TGAATTCCTGACAGCAAAACCAACAAAGAGCTCCAAACAGCAAAATCAAAAATG 180  
Db 774 TGAATTCCTGACAGCAAAACCAACAAAGAGCTCCAAACAGCAAAATCAAAAATG 833  
QY 181 C 181  
Db 834 C 834

## RESULT 4

US-10-235-994-25  
; Sequence 25, Application US/10235994  
; Publication No. US20030101002A1  
; GENERAL INFORMATION:  
; APPLICANT: Bartha, Gabor  
; APPLICANT: Walker, Michael  
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS  
; FILE REFERENCE: ICYPO12  
; CURRENT APPLICATION NUMBER: US/10/235,994  
; CURRENT FILING DATE: 2002-09-04  
; PRIOR APPLICATION NUMBER: US/10/003,608  
; PRIOR FILING DATE: 2001-11-01  
; PRIOR APPLICATION NUMBER: 60/245,081  
; PRIOR FILING DATE: 2000-11-01  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 25  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Human  
US-10-235-994-25

Query Match 100.0%; Score 181; DB 15; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 4.1e-42;  
Matches 181; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 CAAAAGATGCACATTCATTAAGTAACAGGACTCTATGAAAAGGATGTGAGTTGTTCT 60  
Db 654 CAAAAGATGCACATTCATTAAGTAACAGGACTCTATGAAAAGGATGTGAGTTGTTCT 713  
QY 61 CCAATCCCGCAGACGGAGAGGCTTCTATATGTTTGCACAACTGTTGATTTCTATAGT 120  
Db 714 CCAATCCCGCAGACGGAGAGGCTTCTATATGTTTGCACAACTGTTGATTTCTATAGT 773  
QY 121 TGAATTCCTGACAGCAAAACCAACAAAGAGCTCCAAACAGCAAAATCAAAAATG 180  
Db 774 TGAATTCCTGACAGCAAAACCAACAAAGAGCTCCAAACAGCAAAATCAAAAATG 833  
QY 181 C 181  
Db 834 C 834



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RESULT 5
US-09-764-868-22
; Sequence 22, Application US/09764868
; Patent No. US20020168711A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT232
; CURRENT APPLICATION NUMBER: US/09/764,868
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1510
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 22
; LENGTH: 3267
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-868-22

Query Match      100.0%; Score 181; DB 9; Length 3267;
Best Local Similarity 100.0%; Pred. No. 4.1e-42;
Matches 181; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 61 CCAATCCCGCCAGACGGAGGCTTCTATATGTTTGCACACATGTTGATTTCTTCTATAGT 120
DB 715 CCAATCCCGCCAGACGGAGGCTTCTATATGTTTGCACACATGTTGATTTCTTCTATAGT 774
QY 121 TGAATTTCTGTACAGAACAAACACCAACAAAGAGCTCCAAACAGCAAAATCAAAAATG 180
DB 775 TGAATTTCTGTACAGAACAAACACCAACAAAGAGCTCCAAACAGCAAAATCAAAAATG 834
QY 181 C 181
DB 835 C 835

RESULT 6
US-09-867-034-3
; Sequence 3, Application US/09867034
; Publication No. US20030180817A1
; GENERAL INFORMATION:
; APPLICANT: Macina, Roberto A
; APPLICANT: Chen, Sei-Yu
; APPLICANT: Pluta, Jason
; APPLICANT: Sun, Yongming
; APPLICANT: Recipon, Herve
; TITLE OF INVENTION: Method of Diagnosing, Monitoring, Staging, Imaging and
; FILE REFERENCE: DEX-0207
; CURRENT APPLICATION NUMBER: US/09/867,034
; CURRENT FILING DATE: 2001-05-29
; PRIOR APPLICATION NUMBER: 60/207,383
; PRIOR FILING DATE: 2000-05-26
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 4569
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-867-034-3

Query Match      100.0%; Score 181; DB 10; Length 4569;
Best Local Similarity 100.0%; Pred. No. 4.7e-42;
Matches 181; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAAAAGATGCACATTCATATAAGTAACAGAGCTCTATATGTTTGCACACATGTTGATTTCTTCT 60
DB 2349 CAAAAGATGCACATTCATATAAGTAACAGAGCTCTATATGTTTGCACACATGTTGATTTCTTCT 2408
QY 61 CCAATCCCGCCAGACGGAGGCTTCTATATGTTTGCACACATGTTGATTTCTTCTATAGT 120
DB 2409 CCAATCCCGCCAGACGGAGGCTTCTATATGTTTGCACACATGTTGATTTCTTCTATAGT 2468
QY 121 TGAATTTCTGTACAGAACAAACACCAACAAAGAGCTCCAAACAGCAAAATCAAAAATG 180
DB 2469 TGAATTTCTGTACAGAACAAACACCAACAAAGAGCTCCAAACAGCAAAATCAAAAATG 2528
QY 181 C 181
DB 2529 C 2529

RESULT 7
US-10-276-115-3
; Sequence 3, Application US/10276115
; Publication No. US20030211039A1
; GENERAL INFORMATION:
; APPLICANT: Macina, Roberto A
; APPLICANT: Chen, Sei-Yu
; APPLICANT: Pluta, Jason
; APPLICANT: Sun, Yongming
; APPLICANT: Recipon, Herve
; APPLICANT: diabexus, Inc.
; TITLE OF INVENTION: Method of Diagnosing, Monitoring, Staging, Imaging and
; FILE REFERENCE: DEX-0208
; CURRENT APPLICATION NUMBER: US/10/276,115
; CURRENT FILING DATE: 2002-11-12
; PRIOR APPLICATION NUMBER: 60/207,383
; PRIOR FILING DATE: 2000-05-26
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 4569
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-276-115-3

Query Match      100.0%; Score 181; DB 13; Length 4569;
Best Local Similarity 100.0%; Pred. No. 4.7e-42;
Matches 181; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAAAAGATGCACATTCATATAAGTAACAGAGCTCTATATGTTTGCACACATGTTGATTTCTTCT 60
DB 2349 CAAAAGATGCACATTCATATAAGTAACAGAGCTCTATATGTTTGCACACATGTTGATTTCTTCT 2408
QY 61 CCAATCCCGCCAGACGGAGGCTTCTATATGTTTGCACACATGTTGATTTCTTCTATAGT 120
DB 2409 CCAATCCCGCCAGACGGAGGCTTCTATATGTTTGCACACATGTTGATTTCTTCTATAGT 2468
QY 121 TGAATTTCTGTACAGAACAAACACCAACAAAGAGCTCCAAACAGCAAAATCAAAAATG 180
DB 2469 TGAATTTCTGTACAGAACAAACACCAACAAAGAGCTCCAAACAGCAAAATCAAAAATG 2528
QY 181 C 181
DB 2529 C 2529

RESULT 8
US-10-270-595-5
; Sequence 5, Application US/10270595
; Publication No. US20030078409A1
; GENERAL INFORMATION:
; APPLICANT: Magalin Pharmaceuticals, Inc.
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/10/270,595

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; CURRENT FILING DATE: 2002-10-16
; PRIOR APPLICATION NUMBER: US/09/623,624
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 2745
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(2742)
US-10-270-595-5
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Query Match      99.8%; Score 180.6; DB 15; Length 2745;
Best Local Similarity 99.4%; Pred. No. 5e-42;
Matches 180; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAAAAGATGCACATTCATTAAGTAACAGAGGCTTCTATGAAAGAGGATGTGAGTTGTTCT 60
Db 621 CAAAAGATGCACATTCATTAAGTAACAGAGGCTTCTATGAAAGAGGATGTGAGTTGTTCT 680

QY 61 CCAATCCCGCCAGACGAGAGGCTTCTATGAAAGAGGCTTCTATGAAAGAGGATGTGAGTTGTTCTATAGT 120
Db 681 CCAATCCCGCCAGACGAGAGGCTTCTATGAAAGAGGCTTCTATGAAAGAGGATGTGAGTTGTTCTATAGT 740

QY 121 TGAATTCCTGACAGAACCAACCAACAAAGAGCTCCAAACAGCAAAATCAAAAATG 180
Db 741 TGAATTCCTGACAGAACCAACCAACAAAGAGCTCCAAACAGCAAAATCAAAAATG 800

QY 181 C 181
Db 801 C 801
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RESULT 9
US-10-698-2111
; Sequence 2111, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
; FILE REFERENCE: PA005P1
; CURRENT APPLICATION NUMBER: US/10/106,698
; PRIOR FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 2111
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; LENGTH: 3109
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-106-698-2111

Query Match      99.8%; Score 180.6; DB 15; Length 3109;
Best Local Similarity 99.4%; Pred. No. 5.3e-42;
Matches 180; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAAAAGATGCACATTCATTAAGTAACAGAGGCTTCTATGAAAGAGGATGTGAGTTGTTCT 60
Db 508 CAAAAGATGCACATTCATTAAGTAACAGAGGCTTCTATGAAAGAGGATGTGAGTTGTTCT 567

QY 61 CCAATCCCGCCAGACGAGAGGCTTCTATGAAAGAGGCTTCTATGAAAGAGGATGTGAGTTGTTCTATAGT 120
Db 568 CCAATCCCGCCAGACGAGAGGCTTCTATGAAAGAGGCTTCTATGAAAGAGGATGTGAGTTGTTCTATAGT 627

QY 121 TGAATTCCTGACAGAACCAACCAACAAAGAGCTCCAAACAGCAAAATCAAAAATG 180
Db 628 TGAATTCCTGACAGAACCAACCAACAAAGAGCTCCAAACAGCAAAATCAAAAATG 687

QY 181 C 181
Db 688 C 688
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RESULT 10
US-10-106-698-351
; Sequence 351, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides
; FILE REFERENCE: PA005P1
; CURRENT APPLICATION NUMBER: US/10/106,698
; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 351
; LENGTH: 2867
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-106-698-351
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Query Match      99.1%; Score 179.4; DB 15; Length 2867;
Best Local Similarity 99.4%; Pred. No. 1.1e-41;
Matches 180; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CAAAAGATGCACATTCATTAAGTAACAGAGGCTTCTATGAAAGAGGATGTGAGTTGTTCT 60
Db 658 CAAAAGATGCACATTCATTAAGTAACAGAGGCTTCTATGAAAGAGGATGTGAGTTGTTCT 717

QY 61 CCAATCCCGCCAGACGAGAGGCTTCTATGAAAGAGGCTTCTATGAAAGAGGATGTGAGTTGTTCTATAGT 120
Db 718 CCAATCCCGCCAGACGAGAGGCTTCTATGAAAGAGGCTTCTATGAAAGAGGATGTGAGTTGTTCTATAGT 777

QY 121 TGAATTCCTGACAGAACCAACCAACAAAGAGCTCCAAACAGCAAAATCAAAAATG 180
Db 778 TGAATTCCTGACAGAACCAACCAACAAAGAGCTCCAAACAGCAAAATCAAAAATG 837

QY 181 C 181
Db 838 C 838
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RESULT 11
US-10-055-412B-27
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; Sequence 27, Application US/10055412B
; Publication No. US20030059861A1
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0058
; CURRENT APPLICATION NUMBER: US/10/055,412B
; PRIOR FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: US/09/193,562
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 27
; LENGTH: 3007
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-055-412B-27

Query Match          99.1%; Score 179.4; DB 15; Length 3007;
Best Local Similarity 99.4%; Pred. No. 1.2e-41;
Matches 180; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CAAAAGATGCACATTCATTAAGTAACAGGACTCTATGAAAAAGGATGTGAGTTGTTCT 60
Db 667 CAAAAGATGCACATTCATTAAGTAACAGGACTCTATGAAAAAGGATGTGAGTTGTTCT 726
QY 61 CCAATCCCGCCAGACGAGAGGCTTCTATATGTTTGCACAACTGTTGATTTCTATAGT 120
Db 727 CCAATCCCGCCAGACGAGAGGCTTCTATATGTTTGCACAACTGTTGATTTCTATAGT 786
QY 121 TGAATTTCTGTACAGAACAAAACCAACAAAGAGCTCCAAAACAGCAAAAATCAAAAATG 180
Db 787 TGAATTTCTGTACAGAACAAAACCAACAAAGAGCTCCAAAACAGCAAAAATCAAAAATG 846
QY 181 C 181
Db 847 C 847

RESULT 12
US-09-922-217-1056
; Sequence 1056, Application US/09922217
; Patent No. US20020076414A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yujin
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; CURRENT FILING DATE: 2001-08-03
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1056
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-922-217-1056

Query Match          99.1%; Score 179.4; DB 9; Length 3311;
Best Local Similarity 99.4%; Pred. No. 1.2e-41;
Matches 180; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CAAAAGATGCACATTCATTAAGTAACAGGACTCTATGAAAAAGGATGTGAGTTGTTCT 60
Db 972 CAAAAGATGCACATTCATTAAGTAACAGGACTCTATGAAAAAGGATGTGAGTTGTTCT 1031
QY 61 CCAATCCCGCCAGACGAGAGGCTTCTATATGTTTGCACAACTGTTGATTTCTATAGT 120
Db 1032 CCAATCCCGCCAGACGAGAGGCTTCTATATGTTTGCACAACTGTTGATTTCTATAGT 1091
QY 121 TGAATTTCTGTACAGAACAAAACCAACAAAGAGCTCCAAAACAGCAAAAATCAAAAATG 180
Db 1092 TGAATTTCTGTACAGAACAAAACCAACAAAGAGCTCCAAAACAGCAAAAATCAAAAATG 1151
QY 181 C 181
Db 1152 C 1152

RESULT 13
US-09-833-263-1056
; Sequence 1056, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Stolk, John A.
; APPLICANT: Meagher, Madeleine J.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; FILE REFERENCE: 210121.471C12
; CURRENT APPLICATION NUMBER: US/09/833,263
; CURRENT FILING DATE: 2001-04-10
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1056
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-833-263-1056

Query Match          99.1%; Score 179.4; DB 9; Length 3311;
Best Local Similarity 99.4%; Pred. No. 1.2e-41;
Matches 180; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CAAAAGATGCACATTCATTAAGTAACAGGACTCTATGAAAAAGGATGTGAGTTGTTCT 60
Db 972 CAAAAGATGCACATTCATTAAGTAACAGGACTCTATGAAAAAGGATGTGAGTTGTTCT 1031
QY 61 CCAATCCCGCCAGACGAGAGGCTTCTATATGTTTGCACAACTGTTGATTTCTATAGT 120
Db 1032 CCAATCCCGCCAGACGAGAGGCTTCTATATGTTTGCACAACTGTTGATTTCTATAGT 1091
QY 121 TGAATTTCTGTACAGAACAAAACCAACAAAGAGCTCCAAAACAGCAAAAATCAAAAATG 180
Db 1092 TGAATTTCTGTACAGAACAAAACCAACAAAGAGCTCCAAAACAGCAAAAATCAAAAATG 1151
QY 181 C 181
Db 1152 C 1152

RESULT 14
US-10-025-380-1056
; Sequence 1056, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
```

APPLICANT: Wang, Tongtong  
APPLICANT: Jiang, Yuqiu  
APPLICANT: Smith, Carole L.  
APPLICANT: King, Gordon E.  
APPLICANT: Wang, Aijun  
APPLICANT: Clapper, Jonathan D.  
APPLICANT: Skeiky, Yasir A. W.  
APPLICANT: Fanger, Gary R.  
APPLICANT: Vedvick Thomas S.  
APPLICANT: Carter, Darrick  
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
FILE REFERENCE: 210121.471C14  
CURRENT APPLICATION NUMBER: US/10/025,380  
CURRENT FILING DATE: 2001-12-19  
NUMBER OF SEQ ID NOS: 1129  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 1056  
LENGTH: 3311  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-025-380-1056

Query Match 99.1%; Score 179.4; DB 14; Length 3311;  
Best Local Similarity 99.4%; Pred. No. 1.2e-41;  
Matches 180; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 CAAAGATGCACATTCATTAAGTAACAGGACTCTATGAAAAGGATGTGAGTTGTCT 60  
DB 972 CAAAAGATGCACATTCATTAAGTAACAGGACTCTATGAAAAGGATGTGAGTTGTCT 1031  
QY 61 CCAATCCCGCAGACGAGAGGCTTCTATAATGTTTGCACACATGTTGATTTCTATAGT 120  
DB 1032 CCAATCCCGCAGACGAGAGGCTTCTATAATGTTTGCACACATGTTGATTTCTATAGT 1091  
QY 121 TGAATTTCTGACAGCAAAACCCACAAAGAGCTCCAAAAGCAAAATCAAAAATG 180  
DB 1092 TGAATTTCTGACAGCAAAACCCACAAAGAGCTCCAAAAGCAAAATCAAAAATG 1151  
QY 181 C 181  
DB 1152 C 1152

RESULT 15  
US-10-393-590-11  
Sequence 11, Application US/10393590  
Publication No. US20030190656A1  
GENERAL INFORMATION:  
APPLICANT: WANG, YIXIN  
TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO  
FILE REFERENCE: CDS 268 US NP  
CURRENT APPLICATION NUMBER: US/10/393,590  
CURRENT FILING DATE: 2003-03-21  
PRIOR APPLICATION NUMBER: 60/368,789  
PRIOR FILING DATE: 2002-03-29  
NUMBER OF SEQ ID NOS: 100  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 11  
LENGTH: 3311  
TYPE: DNA  
ORGANISM: human  
US-10-393-590-11

Query Match 99.1%; Score 179.4; DB 15; Length 3311;  
Best Local Similarity 99.4%; Pred. No. 1.2e-41;  
Matches 180; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 CAAAGATGCACATTCATTAAGTAACAGGACTCTATGAAAAGGATGTGAGTTGTCT 60  
DB 972 CAAAAGATGCACATTCATTAAGTAACAGGACTCTATGAAAAGGATGTGAGTTGTCT 1031  
QY 61 CCAATCCCGCAGACGAGAGGCTTCTATAATGTTTGCACACATGTTGATTTCTATAGT 120

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DB 1032 CCAATCCCGCAGACGAGAGGCTTCTATAATGTTTGCACACATGTTGATTTCTATAGT 1091  
QY 121 TGAATTTCTGACAGCAAAACCCACAAAGAGCTCCAAAAGCAAAATCAAAAATG 180  
DB 1092 TGAATTTCTGACAGCAAAACCCACAAAGAGCTCCAAAAGCAAAATCAAAAATG 1151  
QY 181 C 181  
DB 1152 C 1152

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OM nucleic - nucleic search, using sw model

Run on: April 24, 2004, 00:33:00 ; Search time 16.6376 Seconds  
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Perfect score: 181  
Sequence: 1 CAAGAATGCATTCATTA.....ACAAGCAAAATCAAAATGC 181

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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4: /cgn2\_6/prodata/2/ina/6B COMB.seq.\*  
5: /cgn2\_6/prodata/2/ina/PCTUS COMB.seq.\*  
6: /cgn2\_6/prodata/2/ina/backfileseq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	180.6	99.8	2745	4	US-09-623-624-5
2	179.4	99.1	3007	4	US-09-193-562D-27
3	94.8	52.4	2931	4	US-09-623-624-1
4	80.8	44.6	3043	4	US-09-049-698-16
5	80.8	44.6	3181	4	US-09-049-698-18
6	74.2	41.0	3317	4	US-09-193-562D-1
7	72.8	40.2	3418	4	US-09-193-562D-29
8	66.4	36.7	3022	4	US-09-193-562D-33
9	58.8	32.5	2773	4	US-09-643-597-358
10	58.8	32.5	2784	4	US-09-643-597-168
11	58.8	32.5	2784	4	US-09-480-884A-168
12	58.8	32.5	2784	4	US-09-542-615A-168
13	58.8	32.5	2784	4	US-09-606-421B-168
14	58.8	32.5	2970	4	US-09-193-562D-31
15	58.8	32.5	3362	4	US-09-643-597-167
16	58.8	32.5	3362	4	US-09-480-884A-167
17	58.8	32.5	3362	4	US-09-542-615A-167
18	58.8	32.5	3362	4	US-09-606-421B-167
19	58.8	32.5	3951	4	US-09-643-597-160
20	58.8	32.5	3951	4	US-09-480-884A-160
21	58.8	32.5	3951	4	US-09-542-615A-160
22	58.8	32.5	3951	4	US-09-606-421B-160
23	58.8	32.5	3951	4	US-09-221-107-160
24	58.8	32.5	8031	4	US-09-643-597-254
25	58.8	32.5	8031	4	US-09-480-884A-254
26	58.8	32.5	8031	4	US-09-542-615A-254
27	58.8	32.5	8031	4	US-09-606-421B-254

28	57.2	31.6	3190	4	US-09-623-624-3	Sequence 3, Appli
29	38	21.0	3156	4	US-09-919-172-86	Sequence 86, Appl
C 30	36.8	20.3	5156	2	US-09-091-432-3	Sequence 3, Appli
C 31	36.8	20.3	5156	4	US-09-387-663-3	Sequence 3, Appli
C 32	36.8	20.3	5156	4	US-09-214-139B-3	Sequence 3, Appli
33	35	19.3	1794	3	US-09-012-515A-13	Sequence 13, Appl
34	35	19.3	1794	3	US-08-360-144A-13	Sequence 13, Appl
35	35	19.3	1794	4	US-09-012-504A-13	Sequence 13, Appl
36	35	19.3	1794	4	US-09-012-399A-13	Sequence 13, Appl
37	35	19.3	1794	5	PCT-US95-06722-13	Sequence 13, Appl
38	32.6	18.0	698	4	US-09-171-209-60	Sequence 60, Appli
39	32.6	18.0	1534	1	US-08-300-903A-6	Sequence 6, Appli
40	32.6	18.0	1534	4	US-08-988-197-6	Sequence 6, Appli
41	32.6	18.0	1230025	4	US-09-198-452A-1	Sequence 1, Appli
42	32.2	17.8	1117	3	US-09-247-373B-33	Sequence 33, Appl
43	32	17.7	231	4	US-09-049-698-3	Sequence 3, Appli
44	32	17.7	619	4	US-09-016-434-931	Sequence 931, App
45	32	17.7	1664976	4	US-08-916-421B-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1  
US-09-623-624-5  
; Sequence 5, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 2745  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(2742)  
US-09-623-624-5

Query Match 99.8%; Score 180.6; DB 4; Length 2745;  
Best Local Similarity 99.4%; Pred. No. 1.8e-45;  
Matches 180; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy	1	C	A A A G A T C C A C A T T C A A T A A A G T A A C A G G C T C T A T G A A A A G G A T G T G A G T T T G T C T	60
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D <sub>b</sub>	621	C	A A A G A T C C A C A T T C A A T A A A G T W A C A G G A C T C T A T G A A A A G G A T G T G A G T T T G T C T	680
Qy	61	C	A A T C C C C C C A G A C G G A G G C T T C T A T A A T G T T T G C A C A C A T G T T G A T T C T A T A G T	120
D <sub>b</sub>	681	C	A A A T C C C C C C A G A C G G A G G C T T C T A T A A T G T T T G C A C A C A T G T T G A T T C T A T A G T	740
Qy	121	T	G A A T T C T G T A C A G A A C A A A C C A C A A C A A A G A G C T C C A A A C A A G A A A A T C A A A A A T G	180
D <sub>b</sub>	741	T	G A A T T C T G T A C A G A A C A A A C C A C A A A G A G C T C C A A A C A A G A A A A T C A A A A A T G	800
Qy	181	C	181	
D <sub>b</sub>	801	C	801	

## RESULT 2

```

US-09-193-562D-27
; Sequence 27, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 27
; LENGTH: 3007
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-193-562D-27

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Query Match	99.1%;	Score 179.4;	DB 4;	Length 3007;
Best local similarity	99.4%;	Pred. No. 4.3e-45;		
Matches 180;	Conservative 0;	Mismatches 1;	Indels 0;	Gaps 0;
Qy 1	CAAAAGATGCACATTCAATTAAGTAAACAGGAGCTCTATGAAAAGGATGTGAGTTTGTTCT	60		
Db 667	CAAAAGATGCACATTCAATTAAGTAAACAGGAGCTCTATGAAAAGGATGTGAGTTTGTTCT	726		
Qy 61	CCAATCCGCGCAGACGAGAGGCTTCTATAATCTTTTGCAACAACATGTTGATTCATAGT	120		
Db 727	CCAATCCGCGCAGACGAGAGGCTTCTATAATCTTTTGCAACAACATGTTGATTCATAGT	786		
Qy 121	TGAATTCGTGTACAGAACCAAAACCCACACAAGAGCTCCCAACCAAGCAAAATCAAAAATG	180		
Db 787	TGAATTCGTGTACAGAACCAAAACCCACACAAGAGAGCTCCAAACAAGCAAAATCAAAAATG	846		
Qy 181	C 181			
Db 847	C 847			

### RESULT 3

US-09-623-624-1  
 ; Sequence 1, Application US/09623624  
 ; Patent No. 6576434  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Megalain Pharmaceuticals, Inc.  
 ; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
 ; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
 ; TITLE OF INVENTION: Disorders  
 ; FILE REFERENCE: 36870-5073-WO  
 ; CURRENT APPLICATION NUMBER: US/09/623,624  
 ; CURRENT FILING DATE: 2000-09-06  
 ; PRIOR APPLICATION NUMBER: PCT/US99/04703  
 ; PRIOR FILING DATE: 1999-03-03

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1  PRIOR APPLICATION NUMBER: US 08/697,360
2  PRIOR FILING DATE: 1996-08-23
3  PRIOR APPLICATION NUMBER: US 08/697,419
4  PRIOR FILING DATE: 1996-08-23
5  PRIOR APPLICATION NUMBER: US 08/697,440
6  PRIOR FILING DATE: 1996-08-23
7  PRIOR APPLICATION NUMBER: US 08/697,471
8  PRIOR FILING DATE: 1996-08-23
9  PRIOR APPLICATION NUMBER: US 08/697,471
10 PRIOR FILING DATE: 1996-08-23
11 PRIOR APPLICATION NUMBER: US 08/697,472
12 PRIOR FILING DATE: 1996-08-23
13 PRIOR APPLICATION NUMBER: US 08/697,473
14 PRIOR FILING DATE: 1996-08-23
15 PRIOR APPLICATION NUMBER: US 08/702,105
16 PRIOR FILING DATE: 1996-08-23
17 PRIOR APPLICATION NUMBER: US 08/702,110
18 PRIOR FILING DATE: 1996-08-23
19 PRIOR APPLICATION NUMBER: US 08/702,168
20 PRIOR FILING DATE: 1996-08-23
21 PRIOR APPLICATION NUMBER: US 08/980,872
22 PRIOR FILING DATE: 1997-12-01
23 NUMBER OF SEQ ID NOS: 18
24 SOFTWARE: PatentIn Ver. 2.0
25 SEQ ID NO 1
26 LENGTH: 2931
27 TYPE: DNA
28 ORGANISM: Mus musculus
29 FEATURES:
30 NAME/KEY: CDS
31 LOCATION: (8)..(2746)
32 US-09-623-624-1

```

	Query Match	52.4%	Score 94.8	DB 4	Length 2931	
	Best Local Similarity	70.8%	Pred. No. 1.9e-19			
	Matches 126	Conservative 0	Mismatches 52	Indels 0	Gaps 0	
Qy	4	AAGATGCACATTC	AAATGAAGTAA	CAGAGACTAT	GAAAAAGATGTGAGTTTGTCTCC	63
Db	634	AAAGTGTGTAAT	TCGACAGAGTAA	CGGACTGTAT	AAAGACAATGTGTGATTTGTAC	693
Qy	64	ATCCCGGCACAG	CGAGAGGGCTT	CTATAATGTTT	TGCAACAATGTTCATTTCTATAGTTGA	123
Db	594	TCCACACCAAA	ACGAGAAGGCTT	CCATCATGTTT	AACCAAAATATCAATCTCTGTGGTTGA	753
Qy	124	ATTCGTACAGAA	CAAAACCA	CAACAAGAGCT	TCCAAACAGCAAAATCAAAATGC	181
b	754	ATTCGTACAGAAA	AAAAATCA	CAATCAAGAGCC	CAATGACCAAAACCAACGATGC	811

## RESULT 4

RESUL 4  
US-09-049-698-16  
; Sequence 16, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COPIITTS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLAAS, MICHAEL R.  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS  
; TITLE OF INVENTION: USEFUL FOR DETECTING  
; TITLE OF INVENTION: TRACT  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park  
; STATE: IL

COUNTRY: USA  
ZIP: 60064-3500  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/049,698  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA: 08/828,856  
APPLICATION NUMBER:  
FILING DATE: 31-MAR-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Becker, Cheryl L.  
REGISTRATION NUMBER: 35,441  
REFERENCE/DOCKET NUMBER: 6068.US.P1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 847/935-1729  
TELEFAX: 847/938-2623  
TELEX:  
INFORMATION FOR SEQ ID NO: 16:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 3043 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-09-049-698-16

Query Match 44.6%; Score 80.8; DB 4; Length 3043;  
Best Local Similarity 65.6%; Pred. No. 3.3e-15;  
Matches 118; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

QY 2 AAAAGATGCACATTCAATAAGTAACAGGACTCTATGAAAGAGTGTGAGTTTGTCTC 61  
Db 635 AGAGCATGCAGATTGATCTACAAACCTGTAAGAAAGATTGCAATCTTCTCT 694

QY 62 CAATCCGCCAGACGAGAGGCTTCTATAATGTTTGCACACATGTTGATCTATAGTT 121  
Db 695 GATAAGTACAAACAGAAAAGCATCCATAATGTTTATGCAAGTATTGATCTGTTT 754

QY 122 GAATTCGTACAGAACAAACACACAAAGAGCTCCAAACAGCAAAATCAAAATGC 181  
Db 755 GAATTTGTACGAAAACCCCATATCAAGAGCTCCAAAGCTCAACAAACATAAAGTGC 814

RESULT 5  
US-09-049-698-18  
Sequence 18, Application US/09049698  
Patent No. 6368792  
GENERAL INFORMATION:  
APPLICANT: BILLING-MEDEL, PATRICIA A.  
APPLICANT: COHEN, MAURICE  
APPLICANT: COLPITTS, TRACEY L.  
APPLICANT: FRIEDMAN, PAULA N.  
APPLICANT: HAYDEN, MARK  
APPLICANT: KLASS, MICHAEL R.  
APPLICANT: ROBERTS-PAPP, LISA  
APPLICANT: RUSSELL, JOHN C.  
APPLICANT: STROUPE, STEPHEN D.  
TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
STREET: 100 Abbott Park Road  
CITY: Abbott Park  
STATE: IL  
COUNTRY: USA  
ZIP: 60064-3500  
COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/049,698  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA: 08/828,856  
APPLICATION NUMBER:  
FILING DATE: 31-MAR-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Becker, Cheryl L.  
REGISTRATION NUMBER: 35,441  
REFERENCE/DOCKET NUMBER: 6068.US.P1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 847/935-1729  
TELEFAX: 847/938-2623  
TELEX:  
INFORMATION FOR SEQ ID NO: 18:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 3181 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-09-049-698-18

Query Match 44.6%; Score 80.8; DB 4; Length 3181;  
Best Local Similarity 65.6%; Pred. No. 3.3e-15;  
Matches 118; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

QY 2 AAAAGATGCACATTCAATAAGTAACAGGACTCTATGAAAGAGTGTGAGTTTGTCTC 61  
Db 646 AGAGCATGCAGATTGATCTACAAACCTGTAAGAAAGATTGCAATCTTCTCT 705

QY 62 CAATCCGCCAGACGAGAGGCTTCTATAATGTTTGCACACATGTTGATCTATAGTT 121  
Db 706 GATAAGTACAAACAGAAAAGCATCCATAATGTTTATGCAAGTATTGATCTGTTT 765

QY 122 GAATTCGTACAGAACAAACACACAAAGAGCTCCAAACAGCAAAATCAAAATGC 181  
Db 766 GAATTTGTACGAAAACCCCATATCAAGAGCTCCAAAGCTCAACAAACATAAAGTGC 825

RESULT 6  
US-09-193-562D-1  
Sequence 1, Application US/09193562D  
Patent No. 6309857  
GENERAL INFORMATION:  
APPLICANT: Pauli, Benedict U.  
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
FILE REFERENCE: 18617.0052  
CURRENT APPLICATION NUMBER: US/09/193,562D  
CURRENT FILING DATE: 1998-11-17  
PRIOR APPLICATION NUMBER: US/60/065,922  
PRIOR FILING DATE: 1997-11-17  
NUMBER OF SEQ ID NOS: 47  
SEQ ID NO 1  
LENGTH: 3317  
TYPE: DNA  
ORGANISM: Unknown  
FEATURE:  
OTHER INFORMATION: sequence encoding Lu-ECAM-1 and Lu-ECAM-1 associated  
protein from bovine endothelial cells  
US-09-193-562D-1

Query Match 41.0%; Score 74.2; DB 4; Length 3317;  
Best Local Similarity 64.0%; Pred. No. 3.4e-13;  
Matches 112; Conservative 0; Mismatches 63; Indels 0; Gaps 0;

QY 7 ATGCACATTCAATAAGTAACAGGACTCTATGAAAGAGTGTGAGTTTGTCTCAATC 66  
|||||

Db 692 ATGCAGAGCTGACTCACAGACAGGGCTGTATGAAGCAAAATGTACATTCCTCTCCAAAAA 751  
QY 67 CGCCAGAGCGGAGAGGCTTCTATATGTTTGCACAAACATGTTGATCTCTATAGTTGAATT 126  
Db 752 ATCCAGAGCTGCAAGGAATCCATTATGTTTATGCCAAGTCTCCATCTCTGACTGAATT 811  
QY 127 CTGTACAGAAACAAACCAACAAAGAGCTCCAAACAGCAAAATCAAAAATGC 181  
Db 812 TTGTACAGAAAACACACAAATACAGAGCTCCAAACCTCAAAACAAATGTGC 866

## RESULT 7

US-09-193-562D-29  
; Sequence 29, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 29  
; LENGTH: 3418  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-193-562D-29

Query Match 40.2%; Score 72.8; DB 4; Length 3418;  
Best Local Similarity 66.7%; Pred. No. 9.1e-13;  
Matches 104; Conservative 0; Mismatches 52; Indels 0; Gaps 0;

QY 26 ACAGGACTCTATGAAAGAGATGTGAGTTTGTCTCCAAATCCGCCAGACGAGAGGCT 85  
Db 664 ACAGGCTGTATGAGCAAAATGTACATTTATCCCAAGAGATCCAGACTGCCAAGAA 723  
QY 86 TCTATAATGTTTGCACAAACATGTTGATCTCTATAGTTGAATCTGTACAGAAACAAACAC 145  
Db 724 TCCATTGTGTTTATGCAAAATCTGATCTGTGACTGAATTTGTACTGAAAAAACACAC 783  
QY 146 ACAAGAGAGCTCCAAACAGCAAAATCAAAAATGC 191  
Db 784 AATAAGAGAGCTCCAAACCTATATACAAAATGTGC 819

## RESULT 8

US-09-193-562D-33  
; Sequence 33, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 33  
; LENGTH: 3022  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-09-193-562D-33

Query Match 36.7%; Score 66.4; DB 4; Length 3022;  
Best Local Similarity 64.1%; Pred. No. 7.6e-11;  
Matches 100; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY 26 ACAGGACTCTATGAAAGAGATGTGAGTTTGTCTCCAAATCCGCCAGACGAGAGGCT 85

Db 663 ACAGGCTGTATGAACCCAAATGTACATTTATCCAGACAAATACAGACAGCTGGGGCC 722  
QY 86 TCTATAATGTTTGCACAAACATGTTGATCTCTATAGTTGAATCTGTACAGAAACAAACAC 145  
Db 723 TCCATAATGTTTATGCAAAACCTCAATCTGTGGTTGAATTTTGCAGAAATACCCAC 782  
QY 146 AACAAAGAGCTCCAAACAGCAAAATCAAAAATGC 181  
Db 783 AATGCAAGAGCCCAACCTACAAAACAAATGTGC 818

## RESULT 9

US-09-643-597-358  
; Sequence 358, Application US/09643597  
; Patent No. 6426072  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Fan, Liqun  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Hosken, Nancy  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Li, Samuel X.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Skeiky, Yasir A.W.  
; APPLICANT: Henderson, Robert A.  
; APPLICANT: McNeill, Patricia D.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; FILE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER  
; FILE REFERENCE: 210121.455C11  
; CURRENT APPLICATION NUMBER: US/09/643,597  
; CURRENT FILING DATE: 2000-08-21  
; NUMBER OF SEQ ID NOS: 369  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 358  
; LENGTH: 2773  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-643-597-358

Query Match 32.5%; Score 58.8; DB 4; Length 2773;  
Best Local Similarity 62.0%; Pred. No. 1.5e-08;  
Matches 93; Conservative 0; Mismatches 57; Indels 0; Gaps 0;

QY 32 CTCATGAAAAGAGATGTGAGTTTGTCTCCAAATCCGCCAGACGAGAGGCTTCTATA 91  
Db 595 CTTTTAAAGAGAGATGCACCTTTATCTACATAGCACCCAAATGCAACTGCATCAATA 654  
QY 92 ATGTTTGCACAAACATGTTGATCTCTATAGTTGAATCTGTACAGAAACAAACCAACAA 151  
Db 655 ATGTTTCATGCAAGTTTATCTCTGTGTTGAATTTTGTATGCAAGTACCCACACCA 714  
QY 152 GAAGTCCAAACAGCAAAATCAAAAATGC 181  
Db 715 GAAGCACCAACCTACAGAACCCAGATGTGC 744

## RESULT 10

US-09-643-597-168  
; Sequence 168, Application US/09643597  
; Patent No. 6426072  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Fan, Liqun  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Hosken, Nancy  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Li, Samuel X.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Skeiky, Yasir A.W.  
; APPLICANT: Henderson, Robert A.



```
; APPLICANT: McNeill, Patricia D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.455C11
; CURRENT APPLICATION NUMBER: US/09/643,597
; CURRENT FILING DATE: 2000-08-21
; NUMBER OF SEQ ID NOS: 369
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 168
; LENGTH: 2784
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-643-597-168

Query Match      32.5%; Score 58.8; DB 4; Length 2784;
Best Local Similarity 62.0%; Pred. No. 1.5e-08;
Matches 93; Conservative 0; Mismatches 57; Indels 0; Gaps 0;

QY 32 CTCATGAAAAGGATGTCAGTTGTTCTCCAAATCCCGCCAGACGGAGAGGCTTCTATA 91
Db 737 CTTTAAAGAGGATGTCACCTTTATCTACAATAGCACCCAAAATGCAACTGCATCAATA 796

QY 92 ATGTTTGCAACATGTTGATTTCTATAGTTGAATCTGTACAGAACAAACACCAACAA 151
Db 797 ATGTTTCATGCAAGTTTATCTCTCTGGTTGAATTTGTAAATGCAAGTACCCACCAACAA 856

QY 152 GAAGCTCCAAACAGCAAAATCAAAATGC 181
Db 857 GAAGCACCAACCTACAGAACCCAGATGTC 886

RESULT 11
US-09-480-884A-168
; Sequence 168, Application US/09480884A
; Patent No. 6482597
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Hosken, Nancy A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
; FILE REFERENCE: 210121.455C6
; CURRENT APPLICATION NUMBER: US/09/480,884A
; CURRENT FILING DATE: 2001-08-27
; NUMBER OF SEQ ID NOS: 330
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 168
; LENGTH: 2784
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-480-884A-168

Query Match      32.5%; Score 58.8; DB 4; Length 2784;
Best Local Similarity 62.0%; Pred. No. 1.5e-08;
Matches 93; Conservative 0; Mismatches 57; Indels 0; Gaps 0;

QY 32 CTCATGAAAAGGATGTCAGTTGTTCTCCAAATCCCGCCAGACGGAGAGGCTTCTATA 91
Db 737 CTTTAAAGAGGATGTCACCTTTATCTACAATAGCACCCAAAATGCAACTGCATCAATA 796

QY 92 ATGTTTGCAACATGTTGATTTCTATAGTTGAATCTGTACAGAACAAACACCAACAA 151
Db 797 ATGTTTCATGCAAGTTTATCTCTCTGGTTGAATTTGTAAATGCAAGTACCCACCAACAA 856

QY 152 GAAGCTCCAAACAGCAAAATCAAAATGC 181
Db 857 GAAGCACCAACCTACAGAACCCAGATGTC 886

RESULT 12
US-09-542-615A-168
; Sequence 168, Application US/09542615A
; Patent No. 6518256
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy A.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
; FILE REFERENCE: 210121.455C8
; CURRENT APPLICATION NUMBER: US/09/542,615A
; CURRENT FILING DATE: 2000-04-14
; NUMBER OF SEQ ID NOS: 350
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 168
; LENGTH: 2784
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-542-615A-168

Query Match      32.5%; Score 58.8; DB 4; Length 2784;
Best Local Similarity 62.0%; Pred. No. 1.5e-08;
Matches 93; Conservative 0; Mismatches 57; Indels 0; Gaps 0;

QY 32 CTCATGAAAAGGATGTCAGTTGTTCTCCAAATCCCGCCAGACGGAGAGGCTTCTATA 91
Db 737 CTTTAAAGAGGATGTCACCTTTATCTACAATAGCACCCAAAATGCAACTGCATCAATA 796

QY 92 ATGTTTGCAACATGTTGATTTCTATAGTTGAATCTGTACAGAACAAACACCAACAA 151
Db 797 ATGTTTCATGCAAGTTTATCTCTCTGGTTGAATTTGTAAATGCAAGTACCCACCAACAA 856

QY 152 GAAGCTCCAAACAGCAAAATCAAAATGC 181
Db 857 GAAGCACCAACCTACAGAACCCAGATGTC 886

RESULT 13
US-09-606-421B-168
; Sequence 168, Application US/09606421B
; Patent No. 6531315
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.455C9
; CURRENT APPLICATION NUMBER: US/09/606,421B
; CURRENT FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 358
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 168
; LENGTH: 2784
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-606-421B-168

Query Match      32.5%; Score 58.8; DB 4; Length 2784;
Best Local Similarity 62.0%; Pred. No. 1.5e-08;
Matches 93; Conservative 0; Mismatches 57; Indels 0; Gaps 0;

QY 32 CTCATGAAAAGGATGTCAGTTGTTCTCCAAATCCCGCCAGACGGAGAGGCTTCTATA 91
Db 737 CTTTAAAGAGGATGTCACCTTTATCTACAATAGCACCCAAAATGCAACTGCATCAATA 796
```

QY 92 ATGTTTGCAACATGTTGATTTCTAGTTGAATTCGTACAGAACAAACCAACACAA 151  
|||||  
Db 797 AGTTTCATGCAAGATTATCTCTCTGTTGATTTGTAATGCAAGTACCCACACACCA 856  
|||||  
QY 152 GAAGTCTCCAAACAGCAAAATCAAAATGC 181  
|||||  
Db 857 GAAGCACCACCACTACAGAACCCAGATGTGC 886  
|||||

RESULT 14

US-09-193-562D-31  
; Sequence 31, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 31  
; LENGTH: 2970  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-193-562D-31

Query Match 32.5%; Score 58.8; DB 4; Length 2970;  
Best Local Similarity 62.0%; Pred. No. 1.5e-08;  
Matches 93; Conservative 0; Mismatches 57; Indels 0; Gaps 0;  
  
QY 32 CTCTATGAAAAAGGATGTGAGTTTGTCTTCCAATCCCGCCAGACGGAGAGGCTTCTATA 91  
|||||  
Db 769 CTTTAAAGAGGATGCACCTTTATCTACAATAGCACCCAAATGCAACTGCATCAATA 828  
|||||  
QY 92 ATGTTTGCAACATGTTGATTTCTATAGTTGAATTCGTACAGAACAAACCAACACAA 151  
|||||  
Db 829 ATGTTTCATGCAAGATTATCTCTCTGTTGATTTGTAATGCAAGTACCCACACACCA 888  
|||||  
QY 152 GAAGTCTCCAAACAGCAAAATCAAAATGC 181  
|||||  
Db 889 GAAGCACCACCACTACAGAACCCAGATGTGC 918  
|||||

RESULT 15

US-09-643-597-167  
; Sequence 167, Application US/09643597  
; Patent No. 6426072  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Fan, Liqun  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Hosken, Nancy  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Li, Samuel X.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Skeiky, Yasir A.W.  
; APPLICANT: Henderson, Robert A.  
; APPLICANT: McNeill, Patricia D.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER  
; FILE REFERENCE: 210121.455C11  
; CURRENT APPLICATION NUMBER: US/09/643,597  
; CURRENT FILING DATE: 2000-08-21  
; NUMBER OF SEQ ID NOS: 369  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 167  
; LENGTH: 3362  
; TYPE: DNA

; ORGANISM: Homo sapien  
US-09-643-597-167  
  
Query Match 32.5%; Score 58.8; DB 4; Length 3362;  
Best Local Similarity 62.0%; Pred. No. 1.6e-08;  
Matches 93; Conservative 0; Mismatches 57; Indels 0; Gaps 0;  
  
QY 32 CTCTATGAAAAAGGATGTGAGTTTGTCTTCCAATCCCGCCAGACGGAGAGGCTTCTATA 91  
|||||  
Db 713 CTTTAAAGAGGATGCACCTTTATCTACAATAGCACCCAAATGCAACTGCATCAATA 772  
|||||  
QY 92 ATGTTTGCAACATGTTGATTTCTATAGTTGAATTCGTACAGAACAAACCAACACAA 151  
|||||  
Db 773 ATGTTTCATGCAAGATTATCTCTCTGTTGATTTGTAATGCAAGTACCCACACACCA 832  
|||||  
QY 152 GAAGTCTCCAAACAGCAAAATCAAAATGC 181  
|||||  
Db 833 GAAGCACCACCACTACAGAACCCAGATGTGC 862  
|||||  
  
Search completed: April 24, 2004, 05:01:01  
Job time : 17.6376 secs

GenCore version 5.1.6  
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OM nucleic - protein search, using frame\_plus\_n2p model

Run on: April 21, 2004, 16:13:49 ; Search time 26.0587 Seconds  
(without alignments)  
3840.718 Million cell updates/sec

Title: US-09-049-696-4  
Perfect score: 324  
Sequence: 1 CAAAGATGACATTCAATA.....ACAAGCAAAATCAAAATGC 181

Scoring table: BLOSUM62  
Xgapop 10.0, Xgapext 0.5  
Ygapop 10.0, Ygapext 0.5  
Fgapop 6.0, Fgapext 7.0  
Delop 6.0, Delext 7.0

Searched: 1133595 seqs, 276475211 residues  
Total number of hits satisfying chosen parameters: 2267190

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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-DB=Published Applications\_AA -QWMT=fastan -SUFFIX=n2p.rapb -MINMATCH=0.1  
-LOOPCL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62  
-TRANS=human40.cdi -LIST=bits -DOCALIGN=200 -THR SCORE=pct -THR MAX=100  
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-MAXLEN=200000000 -USER=US09049696 @CGN 1 139 @runat 21042004 154838 21265  
-NCPU=6 -ICPU=3 -NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100  
-LONGLOG -DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5  
-XGAPOP=6 -XGAPEXT=7 -XGAPOP=10 -XGAPEXT=0.5 -DELOP=6 -DLEXT=7

Database :  
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3: /cn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*  
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6: /cn2\_6/ptodata/2/pubpaa/PCTUS\_PUBCOMB.pep.\*  
7: /cn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep.\*  
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10: /cn2\_6/ptodata/2/pubpaa/US09B\_PUBCOMB.pep.\*  
11: /cn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep.\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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1	324	100.0	869	14	US-10-106-698-6388	Sequence 6388, Ap
2	324	100.0	914	9	US-09-823-356-8	Sequence 8, Appli
3	324	100.0	914	9	US-09-922-217-1066	Sequence 1066, Ap
4	324	100.0	914	9	US-09-833-263-1066	Sequence 1066, Ap
5	324	100.0	914	9	US-09-981-353-192	Sequence 192, App
6	324	100.0	914	11	US-09-833-245-2054	Sequence 2054, Ap
7	324	100.0	914	13	US-10-023-380-1066	Sequence 1066, Ap
8	324	100.0	914	14	US-10-055-412B-28	Sequence 28, Appl
9	324	100.0	914	14	US-10-235-994-26	Sequence 26, Appl
10	324	100.0	914	14	US-10-060-255-42	Sequence 42, Appl
11	324	100.0	914	15	US-10-369-214-1133	Sequence 133, App
12	324	100.0	925	9	US-09-764-868-635	Sequence 635, App
13	324	100.0	925	14	US-10-106-698-6248	Sequence 6248, Ap
14	319	98.5	914	14	US-10-270-595-6	Sequence 6, Appli
15	210	64.8	913	14	US-10-270-595-2	Sequence 2, Appli
16	210	64.8	913	15	US-10-369-214-132	Sequence 132, App
17	180	55.6	917	9	US-09-981-353-54	Sequence 54, Appl
18	180	55.6	917	13	US-10-025-167-41	Sequence 41, Appl
19	180	55.6	917	14	US-10-235-994-16	Sequence 16, Appl
20	180	55.6	917	14	US-10-345-680-32	Sequence 32, Appl
21	180	55.6	917	15	US-10-369-214-134	Sequence 134, Appl
22	180	55.6	917	15	US-10-087-080-34	Sequence 34, Appl
23	180	55.6	919	9	US-09-989-722-379	Sequence 379, App
24	180	55.6	919	9	US-09-989-723-379	Sequence 379, App
25	180	55.6	919	9	US-09-989-727-379	Sequence 379, App
26	180	55.6	919	9	US-09-989-731-379	Sequence 379, App
27	180	55.6	919	9	US-09-989-732-379	Sequence 379, App
28	180	55.6	919	9	US-09-989-732-379	Sequence 379, App
29	180	55.6	919	9	US-09-991-073-379	Sequence 379, App
30	180	55.6	919	9	US-09-990-442-379	Sequence 379, App
31	180	55.6	919	9	US-09-991-163-379	Sequence 379, App
32	180	55.6	919	9	US-09-993-604-379	Sequence 379, App
33	180	55.6	919	9	US-09-990-456-379	Sequence 379, App
34	180	55.6	919	9	US-09-989-721-379	Sequence 379, App
35	180	55.6	919	9	US-09-992-598-379	Sequence 379, App
36	180	55.6	919	9	US-09-989-293A-379	Sequence 379, App
37	180	55.6	919	9	US-09-989-735-379	Sequence 379, App
38	180	55.6	919	9	US-09-990-444-379	Sequence 379, App
39	180	55.6	919	9	US-09-991-181-379	Sequence 379, App
40	180	55.6	919	9	US-09-989-730-379	Sequence 379, App
41	180	55.6	919	9	US-09-990-436-379	Sequence 379, App
42	180	55.6	919	9	US-09-993-687-379	Sequence 379, App
43	180	55.6	919	10	US-09-989-734-379	Sequence 379, App
44	180	55.6	919	10	US-09-997-653-379	Sequence 379, App
45	180	55.6	919	10	US-09-993-667-379	Sequence 379, App

ALIGNMENTS

RESULT 1  
US-10-106-698-6388  
; Sequence 6388, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 6388  
; LENGTH: 869  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: MISC\_FEATURE

; LOCATION: (14)  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-10-106-698-6388

Alignment Scores:  
Pred. No.: 6.26e-34 Length: 869  
Score: 324.00 Matches: 60  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-4 (1-181) x US-10-106-698-6388 (1-869)

QY 2 AAAAGATGCACATTCATTAAGTAAGTAACAGACTCTATGAAAGAGGTGAGTTGTTCTC 61  
DB 163 LysArgCysThrPheAsnLysValThrGlyLeuTyrgluLysGlyCysGluPheValLeu 182  
QY 62 CAATCCCGCAGCAGGAGGCTTCTATAATGTTTGCACACATGTTGATTTCTATAGTT 121  
DB 183 GlnSerArgGlnThrGluLysAlaSerlleMetPheAlaGlnHisValaspSerlleVal 202  
QY 122 GAATTCGTACAGAAACCAACCAACAAAGAGCTCCAAACAGCAAAATCAAAAATGC 181  
DB 203 GluPheCysThrGluGlnAsnHisAsnLysGluAlaProAsnLysGlnAsnGlnLysCys 222

## RESULT 2

US-09-823-356-8  
; Sequence 8, Application US/09823356  
; Patent No. US20010025098A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Kaser, Matthew R.  
; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Purvi  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
; FILE REFERENCE: PF-0489-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823,356  
; PRIOR FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/039,307  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PERL Program  
; SEQ ID NO 8  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775  
US-09-823-356-8

Alignment Scores:  
Pred. No.: 6.31e-34 Length: 914  
Score: 324.00 Matches: 60  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-4 (1-181) x US-09-823-356-8 (1-914)

QY 2 AAAAGATGCACATTCATTAAGTAAGTAACAGACTCTATGAAAGAGGTGAGTTGTTCTC 61  
DB 208 LysArgCysThrPheAsnLysValThrGlyLeuTyrgluLysGlyCysGluPheValLeu 227  
QY 62 CAATCCCGCAGCAGGAGGCTTCTATAATGTTTGCACACATGTTGATTTCTATAGTT 121

DB 228 GlnSerArgGlnThrGluLysAlaSerlleMetPheAlaGlnHisValaspSerlleVal 247  
QY 122 GAATTCGTACAGAAACCAACCAACAAAGAGCTCCAAACAGCAAAATCAAAAATGC 181  
DB 248 GluPheCysThrGluGlnAsnHisAsnLysGluAlaProAsnLysGlnAsnGlnLysCys 267

## RESULT 3

US-09-922-217-1066  
; Sequence 1066, Application US/09922217  
; Patent No. US20020076414A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Yudi  
; APPLICANT: Smith, Carole Lynn  
; APPLICANT: King, Gordon B.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; FILE REFERENCE: 210121.471C13  
; CURRENT APPLICATION NUMBER: US/09/922,217  
; CURRENT FILING DATE: 2001-08-03  
; NUMBER OF SEQ ID NOS: 1124  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1066  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-922-217-1066

Alignment Scores:  
Pred. No.: 6.31e-34 Length: 914  
Score: 324.00 Matches: 60  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-4 (1-181) x US-09-922-217-1066 (1-914)

QY 2 AAAAGATGCACATTCATTAAGTAAGTAACAGACTCTATGAAAGAGGTGAGTTGTTCTC 61  
DB 208 LysArgCysThrPheAsnLysValThrGlyLeuTyrgluLysGlyCysGluPheValLeu 227  
QY 62 CAATCCCGCAGCAGGAGGCTTCTATAATGTTTGCACACATGTTGATTTCTATAGTT 121  
DB 228 GlnSerArgGlnThrGluLysAlaSerlleMetPheAlaGlnHisValaspSerlleVal 247  
QY 122 GAATTCGTACAGAAACCAACCAACAAAGAGCTCCAAACAGCAAAATCAAAAATGC 181  
DB 248 GluPheCysThrGluGlnAsnHisAsnLysGluAlaProAsnLysGlnAsnGlnLysCys 267

## RESULT 4

US-09-833-263-1066  
; Sequence 1066, Application US/09833263  
; Patent No. US20020110547A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Stolk, John A.  
; APPLICANT: Meagher, Madeleine J.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND  
; FILE REFERENCE: 210121.471C12  
; CURRENT APPLICATION NUMBER: US/09/833,263  
; CURRENT FILING DATE: 2001-04-10

RESULT 6  
 US-09-833-245-2054  
 ; Sequence 2054, Application US/09833245  
 ; Publication No. US20040010134A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Human Genome Sciences, Inc.  
 ; TITLE OF INVENTION: Albumin Fusion Proteins  
 ; FILE REFERENCE: PF546PCT  
 ; CURRENT APPLICATION NUMBER: US/09/833,245  
 ; CURRENT FILING DATE: 2001-04-12  
 ; PRIOR APPLICATION NUMBER: 60/229, 358  
 ; PRIOR FILING DATE: 2000-04-12  
 ; PRIOR APPLICATION NUMBER: 60/256, 931  
 ; PRIOR FILING DATE: 2000-12-21  
 ; PRIOR APPLICATION NUMBER: 60/199, 384  
 ; PRIOR FILING DATE: 2000-04-25  
 ; NUMBER OF SEQ ID NOS: 2267  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 2054  
 ; LENGTH: 914  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-09-833-245-2054  
  
 Alignment Scores:  
 Pred. No.: 6,31e-34 Length: 914  
 Score: 324.00 Matches: 60  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 11 Gaps: 0  
  
 US-09-049-696-4 (1-181) x US-09-833-245-2054 (1-914)  
  
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 Db 208 LysArgCysThrPheAsnLysValThrGlyLeuTy-GluLysGlyCysGlu  
  
 Qy 62 CAATCCGCCAGACGGAGAAAGCGTCTCTAATGTTTGCACAAACATGTTGAT  
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 Db 228 GluSerArgGlnThrGluLysAlaSerIleMetPheAlaGlnHisValAsp  
  
 Qy 122 GAATTCCTGTACAAACAAACAAACCAACAAAGAGCTCCAAACAGCAAAAT  
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 Db 248 GluPheCysThrGluGlnAsnHisAsnLysGluAlaProAsnLysGlnAsn

RESULT 7  
 US-10-025-380-1066  
 ; Sequence 1066, Application US/10025380  
 ; Publication No. US20020182191A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Xu, Jiangchun  
 ; APPLICANT: Lodes, Michael J.  
 ; APPLICANT: Secrist, Heather  
 ; APPLICANT: Benson, Darin R.  
 ; APPLICANT: Meagher, Madeleine Joy  
 ; APPLICANT: Stolk, John A.  
 ; APPLICANT: Wang, Tongtong  
 ; APPLICANT: Jiang, Yuqiu  
 ; APPLICANT: Smith, Carole L.  
 ; APPLICANT: King, Gordon E.  
 ; APPLICANT: Wang, Aijun  
 ; APPLICANT: Clapper, Jonathan D.  
 ; APPLICANT: Skeiky, Yasir A. W.  
 ; APPLICANT: Fanger, Gary R.  
 ; APPLICANT: Vedvick Thomas S.  
 ; APPLICANT: Carter, Darrick  
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
 ; FILE REFERENCE: 210121.471C14  
 ; CURRENT APPLICATION NUMBER: US/10/025,380  
 ; CURRENT FILING DATE: 2001-12-19

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; NUMBER OF SEQ ID NOS: 1129
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1066
; LENGTH: 914
; TYPE: prt
; ORGANISM: Homo sapiens
US-10-025-380-1066

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Alignment Scores:	6.31e-34	Length:	914
Pred. No.:	324.00	Matches:	60
Score:	100.00%	Conservative:	0
Percent Similarity:	100.00%	Mismatches:	0
Best Local Similarity:	100.00%	Indels:	0
Query Match:	100.00%	Gaps:	0
DB:	13		

US-09-049-696-4 (1-181) x US-10-025-380-1066 (1-914)

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121	QY	62	CAATCCC	CGACG	GAAGCTTCTA	TAAATGTTT	GCACAA	121
247	Db	228	GlnSer	ArgGlnThr	GluLysAla	SerIleMet	PheAlaGlnHis	247
181	QY	122	GAATCTGT	TACAGAA	CAAAAAC	CAACAAAGAGCT	CAAAACAGCAAAAT	181
267	Db	248	GluPheCysThr	GluGlnAsn	HisAsnLysGlu	AlaProAsnLysGln	AsnGlnLysCys	267

## RESULT 8

US-10-055-412B-28  
; Sequence 28, Application US/10055412B  
; Publication No. US20030059861A1

GENERAL INFORMATION:  
APPLICANT: Paull, Benedict U.  
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
FILE REFERENCE: 18617.0058  
CURRENT APPLICATION NUMBER: US/10/055,412B  
CURRENT FILING DATE: 2001-10-29  
PRIOR APPLICATION NUMBER: US/09/193,562  
PRIOR FILING DATE: 1998-11-17  
PRIOR APPLICATION NUMBER: US/60/065,922  
PRIOR FILING DATE: 1997-11-17  
NUMBER OF SEQ ID NOS: 47

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; SEQ ID NO 28
; LENGTH: 914
; TYPE: PRF
; ORGANISM: Homo sapiens
US-10-055-412B-28

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Score:	324.00
Percent Similarity:	100.00%
Best Local Similarity:	100.00%
Query Match:	100.00%
DR:	14
Length:	914
Matches:	60
Conservative:	0
Mismatches:	0
Indels:	0
Gaps:	0

US-09-049-696-4 (1-181) x US-10-055-412B-28 (1-914)

QY	61	2	AAAAGATGCACATTTCAATTAAGTACACGAGCTCTATGAAAAGAGATGTGAGTTTGTCTC	61
Db	208	208	LysArgCysThrPheAsnLysValThrGlyLeuTrpGluLysGlyCysGluPheValLeu	227
QY	62	62	CAATCCCGCCACACGAGGAGGCTTCTATAATGTGTTGCACAACTGTGTATCTTATAGTT	121
Db	228	228	GlnSerArgGlnThrGluLysAlaSerIleMetPheAlaGlnHisValAspSerIleVal	247
QY	122	122	GAATTCGTATACAGACAAACCCACAAACAGAGCTCCAAACAGACAAATCAAAAATGC	181
Db	248	248	GluPheCysThrGluGlnAsnHisAsnLysGluAlaProAsnLysGluAsnGlnLysCys	267

## RESULT 9

US-10-235-994-26  
; Sequence 26, Application US/10235994  
; Publication No. US20030101002A1

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/ GENERAL INFORMATION:
/ APPLICANT: Bartha, Gabor
/ APPLICANT: Walker, Michael
/ TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS
/ FILE REFERENCE: ICYP012
/ CURRENT APPLICATION NUMBER: US/10/235,994
/ CURRENT FILING DATE: 2002-09-04
/ PRIOR APPLICATION NUMBER: US/10/003,608
/ PRIOR FILING DATE: 2001-11-01
/ PRIOR APPLICATION NUMBER: 60/245,081
/ PRIOR FILING DATE: 2000-11-01
/ NUMBER OF SEQ ID NOS: 30

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; SEQ ID NO 26
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Human
US-10-235-994-26

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Score:	324.00	60
Percent Similarity:	100.00%	Conservative: 0
Best Local Similarity:	100.00%	Mismatches: 0
Query Match:	100.00%	Indels: 0
DB:	14	Gaps: 0

US-09-049-696-4 (1-181) x US-10-235-994-26 (1-914)

Qy	2	AAAAGATCGACATTCATTAATAAGTAAACGAGCTCTATGAAAAAGGATGTGAGTTTGTCTC	61
Db	208	LysAsgCysThrPheAsnLysValThrGlyLeuTyrGluLysGlyCysGluPheValLeu	227
Qy	62	CAATCCGCGCAGACGGAGAAGCTTCTATTAATGTTTCCACAACATGTTGATTCCTATAGTT	121
Db	228	GlnSerArgGlnThrGluLysAlaSerIleMetPheAlaGlnHisValaSpSerIleVal	247
Qy	122	GAAATCTGTACAGACAAACCAACAACAAGACCTCCAACAACGCAAAATCAAAATGC	181
Db	248	GluPheCysThrGluGlnAsnHisAsnLysGluAlaProAsnLysGlnAsnGlnLysCys	267

RESULT 10

US-10-060-255-42  
; Sequence 42, Application US/10060255  
; Publication No. US20030113840A1

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; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 25 Human secreted proteins
; FILE REFERENCE: P2042p1
; CURRENT APPLICATION NUMBER: US/10/060,255
; CURRENT FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: 09/781,417
; PRIOR FILING DATE: 2001-02-13
; PRIOR APPLICATION NUMBER: PCT/US00/22325
; PRIOR FILING DATE: 2000-08-16
; PRIOR APPLICATION NUMBER: 60/149,182
; PRIOR FILING DATE: 1999-08-17
; NUMBER OF SEQ ID NOS: 86
; SOFTWARE: Patent In Ver. 2.0

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; SEQ ID NO 12
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-060-255-42

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Alignment Scores:		
Pred. No.:	6.31e-34	Length:
Score:	324.00	Matches
		60

Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-4 (1-181) x US-10-060-255-42 (1-914)

QY 2 AAAGATGCACATTCATTAAGTAACAGACTCTATGAAAAAGGATGTGAGTTGTCTC 61  
DB 208 LysArgCysThrPheAsnLysValThrGlyLeuTyrGluLysGlyCysGluPheValLeu 227  
QY 62 CAATCCCGCAGAGAGGCTTCTATAATGTTTGCACACATGTTGATCTATAGTT 121  
DB 228 GlnSerArgGlnThrGluLysAlaSerIleMetPheAlaGlnHisValAspSerIleVal 247  
QY 122 GAATTCGTGTACAGAACAAACACACAAAGAGCTCCAAACAAAGCAAAATCAAAATGC 181  
DB 248 GluPheCysThrGluGlnAsnHisAsnLysGluAlaProAsnLysGlnAsnGlnLysCys 267

## RESULT 11

US-10-369-214-133  
; Sequence 133, Application US/10369214  
; Publication No. US20030232037A1  
; GENERAL INFORMATION:

; APPLICANT: Groot, Pieter C.  
; APPLICANT: Berghenhegouwen van, Bram J.  
; APPLICANT: Oosterhout van, Antoon J.M.  
; TITLE OF INVENTION: Genes involved in immune related responses observed  
; TITLE OF INVENTION: with asthma  
; FILE REFERENCE: P53837US00  
; CURRENT APPLICATION NUMBER: US/10/369,214  
; CURRENT FILING DATE: 2003-02-15  
; PRIOR APPLICATION NUMBER: EP 00202867.8  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: PCT/NL01/00610  
; PRIOR FILING DATE: 2001-08-16  
; NUMBER OF SEQ ID NOS: 139  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 133  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (1)..(914)  
; OTHER INFORMATION: /note="Human CLC1"  
US-10-369-214-133

Alignment Scores:  
Pred. No.: 6,31e-34 Length: 914  
Score: 324.00 Matches: 60  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 15 Gaps: 0

US-09-049-696-4 (1-181) x US-10-369-214-133 (1-914)

QY 2 AAAGATGCACATTCATTAAGTAACAGACTCTATGAAAAAGGATGTGAGTTGTCTC 61  
DB 208 LysArgCysThrPheAsnLysValThrGlyLeuTyrGluLysGlyCysGluPheValLeu 227  
QY 62 CAATCCCGCAGAGAGGCTTCTATAATGTTTGCACACATGTTGATCTATAGTT 121  
DB 228 GlnSerArgGlnThrGluLysAlaSerIleMetPheAlaGlnHisValAspSerIleVal 247  
QY 122 GAATTCGTGTACAGAACAAACACACAAAGAGCTCCAAACAAAGCAAAATCAAAATGC 181  
DB 248 GluPheCysThrGluGlnAsnHisAsnLysGluAlaProAsnLysGlnAsnGlnLysCys 267

## RESULT 12

US-09-764-868-635  
; Sequence 635, Application US/09764868

; Patent No. US20020169711A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PT232  
; CURRENT APPLICATION NUMBER: US/09/764,868  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 1510  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 635  
; LENGTH: 925  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-764-868-635

Alignment Scores:  
Pred. No.: 6,33e-34 Length: 925  
Score: 324.00 Matches: 60  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-4 (1-181) x US-09-764-868-635 (1-925)

QY 2 AAAGATGCACATTCATTAAGTAACAGACTCTATGAAAAAGGATGTGAGTTGTCTC 61  
DB 219 LysArgCysThrPheAsnLysValThrGlyLeuTyrGluLysGlyCysGluPheValLeu 238  
QY 62 CAATCCCGCAGAGAGGCTTCTATAATGTTTGCACACATGTTGATCTATAGTT 121  
DB 239 GlnSerArgGlnThrGluLysAlaSerIleMetPheAlaGlnHisValAspSerIleVal 258  
QY 122 GAATTCGTGTACAGAACAAACACACAAAGAGCTCCAAACAAAGCAAAATCAAAATGC 181  
DB 259 GluPheCysThrGluGlnAsnHisAsnLysGluAlaProAsnLysGlnAsnGlnLysCys 278

## RESULT 13

US-10-106-698-6248  
; Sequence 6248, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:

; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 6248  
; LENGTH: 925  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-106-698-6248

Alignment Scores:  
Pred. No.: 6,33e-34 Length: 925  
Score: 324.00 Matches: 60  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-4 (1-181) x US-10-106-698-6248 (1-925)

QY 2 AAAGATGCACATTCATTAAGTAACAGACTCTATGAAAAAGGATGTGAGTTGTCTC 61





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OM nucleic - protein search, using frame\_plus\_n2p model

Run on: April 21, 2004, 16:13:29 ; Search time 9.23632 Seconds  
(without alignments)  
2023.381 Million cell updates/sec

Title: US-09-049-696-4  
Perfect score: 324  
Sequence: 1 CAAAGATGCACATTCAATA.....ACAAGCAAAATCAAAATGTC 181

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Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 389414 seqs, 51625971 residues  
Total number of hits satisfying chosen parameters: 778828

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Command line parameters: -DEV=xlp  
-MODEL=frame+ n2p.model -DEV=xlp  
-O=/cgn2\_1/USPTO spooc\_p/US09049696/runat\_21042004\_154838\_21255/app\_query.fasta\_1.13694  
-DB=Issued\_Patents\_AA -QFMT=fastan -SUFFIX=n2p.rai -MINMATCH=0.1 -DOOPCL=0  
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi  
-LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15  
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0 -MAXLEN=2000000000  
-USER=US09049696 @CGN 1 1 321 @runat\_21042004\_154838\_21255 -NCPU=6 -ICPU=3  
-NO WMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPLOCK=100 -LONGLOG  
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued Patents AA:\*  
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4: /cgn2\_6/prodata/2/iaa/6B COMB pep.\*  
5: /cgn2\_6/prodata/2/iaa/PCTUS COMB pep.\*  
6: /cgn2\_6/prodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	324	100.0	914	4	US-09-193-562D-28
2	319	98.5	914	4	US-09-623-624-6
3	210	64.8	913	4	US-09-623-624-2
4	180	55.6	917	4	US-09-049-698-41
5	169	52.2	902	4	US-09-193-562D-34
6	168	51.9	1000	4	US-09-193-562D-30
7	165	50.9	903	4	US-09-193-562D-46
8	165	50.9	903	4	US-09-623-624-18
9	160	49.4	342	4	US-09-193-562D-13
10	160	49.4	795	4	US-09-193-562D-11
11	160	49.4	821	4	US-09-193-562D-12
12	160	49.4	905	4	US-09-193-562D-2

13	156.5	48.3	592	4	US-09-643-597-169	Sequence 169, App
14	156.5	48.3	592	4	US-09-480-884A-169	Sequence 169, App
15	156.5	48.3	592	4	US-09-542-615A-169	Sequence 169, App
16	156.5	48.3	592	4	US-09-606-421B-169	Sequence 169, App
17	156.5	48.3	791	4	US-09-643-597-170	Sequence 170, App
18	156.5	48.3	791	4	US-09-480-884A-170	Sequence 170, App
19	156.5	48.3	791	4	US-09-542-615A-170	Sequence 170, App
20	156.5	48.3	791	4	US-09-606-421B-170	Sequence 170, App
21	156.5	48.3	920	4	US-09-643-597-357	Sequence 357, App
22	156.5	48.3	943	4	US-09-193-562D-32	Sequence 32, Appl
23	156.5	48.3	943	4	US-09-643-597-161	Sequence 161, App
24	156.5	48.3	943	4	US-09-480-884A-161	Sequence 161, App
25	156.5	48.3	943	4	US-09-542-615A-161	Sequence 161, App
26	156.5	48.3	943	4	US-09-606-421B-161	Sequence 161, App
27	156.5	48.3	943	4	US-09-221-107-161	Sequence 161, App
28	153.5	47.4	943	4	US-09-623-624-4	Sequence 4, Appli
29	121	37.3	942	4	US-09-919-172-87	Sequence 87, Appl
C 30	66	20.2	1786	2	US-08-477-451-16	Sequence 16, Appl
C 31	64	19.6	614	4	US-09-543-681A-4330	Sequence 4330, Ap
C 32	59.5	18.4	93	4	US-09-621-976-6421	Sequence 6421, Ap
C 33	59.5	18.3	117	4	US-09-328-352-7820	Sequence 7820, Ap
C 34	59.5	18.3	415	4	US-09-134-000C-6391	Sequence 6391, Ap
C 35	59.5	18.3	1817	4	US-09-004-838-125	Sequence 125, App
C 36	59	18.1	297	4	US-09-134-001C-3397	Sequence 3397, Ap
C 37	58.5	17.9	85	4	US-09-134-001C-2923	Sequence 2923, Ap
C 38	58.5	18.1	270	4	US-09-489-039A-8781	Sequence 8781, Ap
C 39	58	17.9	139	2	US-08-219-237B-8	Sequence 8, Appli
C 40	58	17.9	140	3	US-08-477-347-17	Sequence 17, Appl
C 41	58	17.9	140	3	US-08-476-862-8	Sequence 8, Appli
C 42	58	17.9	140	4	US-09-800-909-8	Sequence 8, Appli
C 43	58	17.9	140	4	US-09-800-908-17	Sequence 17, Appl
C 44	58	17.9	202	4	US-08-577-788C-52	Sequence 52, Appl
C 45	58	17.9	205	3	US-08-974-022-51	Sequence 51, Appl

ALIGNMENTS

RESULT 1  
US-09-193-562D-28  
; Sequence 28, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedict U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 28  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-193-562D-28

Alignment Scores:  
Pred. No.: 4.37e-37 Length: 914  
Score: 324.00 Matches: 60  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-4 (1-181) x US-09-193-562D-28 (1-914)

QY	2	AAAGATGCACATTCAATAAGTAACAGACTCTATGAAAGAGGATGTGAGTTTGTCTC	61
DB	208	LYSAGCYSThrPheAsnLysValThrGlyLeuTyGluGlyCysGluPheValLeu	227
QY	62	CAATCCCGCAGACGAGAGGCGTTCTATAATGTTTGTGCAACATGTTGATTATAGTT	121



APPLICANT: FRIEDMAN, PAULA N.  
APPLICANT: HAYDEN, MARK  
APPLICANT: KLASS, MICHAEL R.  
APPLICANT: ROBERTS-RAPP, LISA  
APPLICANT: RUSSELL, JOHN C.  
APPLICANT: STROUPE, STEPHEN D.  
TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
TITLE OF INVENTION: TRACT  
NUMBER OF SEQUENCES: 51  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Abbott Laboratories  
STREET: 100 Abbott Park Road  
CITY: Abbott Park  
STATE: IL  
COUNTRY: USA  
ZIP: 60064-3500  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/049,698  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/828,856  
FILING DATE: 31-MAR-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Becker, Cheryl L.  
REGISTRATION NUMBER: 35,441  
REFERENCE/DOCKET NUMBER: 6068.US.P1  
TELEPHONE: 847/935-1729  
TELEFAX: 847/938-2623  
TELEX:  
INFORMATION FOR SEQ ID NO: 41:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 917 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: No. 6368792e  
US-09-049-698-41

Alignment Scores:  
Pred. No.: 8,97e-17 Length: 917  
Score: 180.00 Matches: 33  
Percent Similarity: 68.33% Conservative: 8  
Best Local Similarity: 55.00% Mismatches: 19  
Query Match: 55.56% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-4 (1-181) x US-09-049-698-41 (1-917)

QY 2 AAAGATGCACATTCAATAAGTAACAGGACTCTATGAAAAGGATGTGAGTTGTCTC 61  
Db 208 ArgAlaCysArgIleAspSerThrThrLysLeuTyrGlyLysAspCysGlnPhePro 227  
QY 62 CAATCCCGCCAGCAGGAGGCTTCTATAATGTTTGCACACATGTTGATCTATAGTT 121  
Db 228 AspLysValGlnThrGluLysAlaSerIleMetPheMetGlnSerIleAspSerValVal 247  
QY 122 GAATTCGTGTACAGAACCAACCAAGAGCTCCAAACAGCAAGCAAAATCAAAATGC 181  
Db 248 GluPheCysAsnGluLysThrHisAsnGlnGluAlaProSerLeuGlnAsnIleLysCys 267

RESULT 5  
US-09-193-562D-34  
; Sequence 34, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE REFERENCE: Activated Chloride Channel-Adhesion Molecules  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 30  
; LENGTH: 1000  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-193-562D-30

Alignment Scores:  
Pred. No.: 4,52e-15 Length: 1000  
Score: 168.00 Matches: 30  
Percent Similarity: 73.08% Conservative: 8  
Best Local Similarity: 57.69% Mismatches: 14  
Query Match: 51.85% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-4 (1-181) x US-09-193-562D-30 (1-1000)

QY 26 ACAGGACTCTATGAAAAGGATGTGAGTTGTCTCCAAATCCCGCAGCAGGAGGCT 85  
Db 216 ThrGlyLeuTyrGluAlaLysCysThrPheIleProLysArgSerGlnThrAlaLysGlu 235  
QY 86 TCTATAATGTTTGCACACATGTTGATCTATAGTTGATTTGATCTGTACAGAACCAACCCAC 145

APPLICANT: Pauli, Benedicht U.  
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
FILE REFERENCE: Activated Chloride Channel-Adhesion Molecules  
FILE REFERENCE: 18617.0052  
CURRENT APPLICATION NUMBER: US/09/193,562D  
CURRENT FILING DATE: 1998-11-17  
PRIOR APPLICATION NUMBER: US/60/065,922  
PRIOR FILING DATE: 1997-11-17  
NUMBER OF SEQ ID NOS: 47  
SEQ ID NO 34  
LENGTH: 902  
TYPE: PRT  
ORGANISM: Mus musculus  
US-09-193-562D-34

Alignment Scores:  
Pred. No.: 3,18e-15 Length: 902  
Score: 169.00 Matches: 32  
Percent Similarity: 66.67% Conservative: 8  
Best Local Similarity: 53.33% Mismatches: 20  
Query Match: 52.16% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-4 (1-181) x US-09-193-562D-34 (1-902)

QY 2 AAAGATGCACATTCAATAAGTAACAGGACTCTATGAAAAGGATGTGAGTTGTCTC 61  
Db 208 ArgAlaCysArgIleAspSerThrThrLysLeuTyrGluProLysCysThrPheIlePro 227  
QY 62 CAATCCCGCCAGCAGGAGGCTTCTATAATGTTTGCACACATGTTGATCTATAGTT 121  
Db 228 AspLysIleGlnThrAlaGlyAlaSerIleMetPheMetGlnAsnLeuAsnSerValVal 247  
QY 122 GAATTCGTGTACAGAACCAACCAAGAGCTCCAAACAGCAAGCAAAATCAAAATGC 181  
Db 248 GluPheCysThrGluAsnAsnHisAsnAlaGluAlaProAsnLeuGlnAsnLysMetCys 267

RESULT 6  
US-09-193-562D-30  
; Sequence 30, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE REFERENCE: Activated Chloride Channel-Adhesion Molecules  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 30  
; LENGTH: 1000  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-193-562D-30

Alignment Scores:  
Pred. No.: 4,52e-15 Length: 1000  
Score: 168.00 Matches: 30  
Percent Similarity: 73.08% Conservative: 8  
Best Local Similarity: 57.69% Mismatches: 14  
Query Match: 51.85% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-4 (1-181) x US-09-193-562D-30 (1-1000)

QY 26 ACAGGACTCTATGAAAAGGATGTGAGTTGTCTCCAAATCCCGCAGCAGGAGGCT 85  
Db 216 ThrGlyLeuTyrGluAlaLysCysThrPheIleProLysArgSerGlnThrAlaLysGlu 235  
QY 86 TCTATAATGTTTGCACACATGTTGATCTATAGTTGATTTGATCTGTACAGAACCAACCCAC 145



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DB: 4 Gaps: 0
US-09-049-696-4 (1-181) x US-09-193-562D-13 (1-342)
QY 8 TGCACATTCAATAAGTAACAGACTCTATGAAAAGGATGTGAGTTTGTCTTCCAATCC 67
Db 211 CysArgAspSerGlnThrGlyLeuTyGluAlaLysCysThrPheLeuProLysLys 230
QY 68 CCCCAGCGAGAGGCTTCTATAATGTTTGCACACATGTTGATTCTATAGTTGAATTC 127
Db 231 SerGlnThrAlaLysGluSerIleMetPheMetProSerLeuHisSerValThrGluPhe 250
QY 128 TGTACAGAACAAACCCACAAAGAGCTCCAAACAGCAAAATCAAAAATGC 181
Db 251 CysThrGluLysThrHisAsnThrGluAlaProAsnLeuGlnAsnLysMetCys 268

RESULT 10
US-09-193-562D-11
; Sequence 11, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 11
; LENGTH: 795
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-11

Alignment Scores:
Pred. No.: 5,72e-14 Length: 795
Score: 160.00 Matches: 30
Percent Similarity: 63.79% Conservative: 7
Best Local Similarity: 51.72% Mismatches: 21
Query Match: 49.38% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-4 (1-181) x US-09-193-562D-11 (1-795)
QY 8 TGCACATTCAATAAGTAACAGACTCTATGAAAAGGATGTGAGTTTGTCTTCCAATCC 67
Db 211 CysArgAspSerGlnThrGlyLeuTyGluAlaLysCysThrPheLeuProLysLys 230
QY 68 CCCCAGCGAGAGGCTTCTATAATGTTTGCACACATGTTGATTCTATAGTTGAATTC 127
Db 231 SerGlnThrAlaLysGluSerIleMetPheMetProSerLeuHisSerValThrGluPhe 250
QY 128 TGTACAGAACAAACCCACAAAGAGCTCCAAACAGCAAAATCAAAAATGC 181
Db 251 CysThrGluLysThrHisAsnThrGluAlaProAsnLeuGlnAsnLysMetCys 268

RESULT 11
US-09-193-562D-12
; Sequence 12, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 12
; LENGTH: 821
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Variant of Lu-ECAM-1 from bovine endothelial cells
US-09-193-562D-12

Alignment Scores:
Pred. No.: 5,77e-14 Length: 821
Score: 160.00 Matches: 30
Percent Similarity: 63.79% Conservative: 7
Best Local Similarity: 51.72% Mismatches: 21
Query Match: 49.38% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-4 (1-181) x US-09-193-562D-12 (1-821)
QY 8 TGCACATTCAATAAGTAACAGACTCTATGAAAAGGATGTGAGTTTGTCTTCCAATCC 67
Db 211 CysArgAspSerGlnThrGlyLeuTyGluAlaLysCysThrPheLeuProLysLys 230
QY 68 CCCCAGCGAGAGGCTTCTATAATGTTTGCACACATGTTGATTCTATAGTTGAATTC 127
Db 231 SerGlnThrAlaLysGluSerIleMetPheMetProSerLeuHisSerValThrGluPhe 250
QY 128 TGTACAGAACAAACCCACAAAGAGCTCCAAACAGCAAAATCAAAAATGC 181
Db 251 CysThrGluLysThrHisAsnThrGluAlaProAsnLeuGlnAsnLysMetCys 268

RESULT 12
US-09-193-562D-2
; Sequence 2, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 2
; LENGTH: 905
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells
US-09-193-562D-2

Alignment Scores:
Pred. No.: 5,92e-14 Length: 905
Score: 160.00 Matches: 30
Percent Similarity: 63.79% Conservative: 7
Best Local Similarity: 51.72% Mismatches: 21
Query Match: 49.38% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-4 (1-181) x US-09-193-562D-2 (1-905)
QY 8 TGCACATTCAATAAGTAACAGACTCTATGAAAAGGATGTGAGTTTGTCTTCCAATCC 67
Db 211 CysArgAspSerGlnThrGlyLeuTyGluAlaLysCysThrPheLeuProLysLys 230
QY 68 CCCCAGCGAGAGGCTTCTATAATGTTTGCACACATGTTGATTCTATAGTTGAATTC 127
Db 231 SerGlnThrAlaLysGluSerIleMetPheMetProSerLeuHisSerValThrGluPhe 250
QY 128 TGTACAGAACAAACCCACAAAGAGCTCCAAACAGCAAAATCAAAAATGC 181
Db 251 CysThrGluLysThrHisAsnThrGluAlaProAsnLeuGlnAsnLysMetCys 268
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Db 251 CysThrGluLysThrHisAsnThrGluAlaProAsnLeuGlnAsnLysMetCys 268
RESULT 13
US-09-643-597-169
; Sequence 169, Application US/09643597
; Patent No. 6426072
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Alijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Henderson, Robert A.
; APPLICANT: McNeill, Patricia D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.455C11
; CURRENT APPLICATION NUMBER: US/09/643,597
; NUMBER OF SEQ ID NOS: 369
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 169
; LENGTH: 592
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-643-597-169

Alignment Scores:
Pred. No.: 1,65e-13 Length: 592
Score: 156.50 Matches: 29
Percent Similarity: 63.33% Conservative: 9
Best Local Similarity: 48.33% Mismatches: 19
Query Match: 48.30% Indels: 3
DB: 4 Gaps: 1

US-09-049-696-4 (1-181) x US-09-643-597-169 (1-592)
QY 2 AAAGATGCACATTCAATAAAGTAACAGGACTCTATGAAAAAGGATGTGAGTTTGTCTC 61
Db 214 GluAsnCysIleIleSerLys-----LeuPheLysGluGlyCysThrPheIleTyr 230
QY 62 CAATCCCGCAGCAGGAGAGGCTTCTATATGTTTGCAACATGTTGATTTCTATAGTT 121
Db 231 AsnSerThrGlnAsnAlaThrAlaSerIleMetPheMetGlnSerLeuSerValVal 250
QY 122 GAATTCCTGTACAGAACAAACCAACAAAGAGCTCCAAACAAAGCAAAATCAAAAATGC 181
Db 251 GluPheCysAsnAlaSerThrHisAsnGlnGluAlaProAsnLeuGlnAsnGlnMetCys 270

RESULT 14
US-09-480-884A-169
; Sequence 169, Application US/09480884A
; Patent No. 6482597
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Hosken, Nancy A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY
; FILE REFERENCE: 210121.455C6
; CURRENT APPLICATION NUMBER: US/09/480,884A
; NUMBER OF SEQ ID NOS: 330
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 169
; LENGTH: 592
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-480-884A-169

Alignment Scores:
Pred. No.: 1,65e-13 Length: 592
Score: 156.50 Matches: 29
Percent Similarity: 63.33% Conservative: 9
Best Local Similarity: 48.33% Mismatches: 19
Query Match: 48.30% Indels: 3
DB: 4 Gaps: 1

US-09-049-696-4 (1-181) x US-09-480-884A-169 (1-592)
QY 2 AAAGATGCACATTCAATAAAGTAACAGGACTCTATGAAAAAGGATGTGAGTTTGTCTC 61
Db 214 GluAsnCysIleIleSerLys-----LeuPheLysGluGlyCysThrPheIleTyr 230
QY 62 CAATCCCGCAGCAGGAGAGGCTTCTATATGTTTGCAACATGTTGATTTCTATAGTT 121
Db 231 AsnSerThrGlnAsnAlaThrAlaSerIleMetPheMetGlnSerLeuSerValVal 250
QY 122 GAATTCCTGTACAGAACAAACCAACAAAGAGCTCCAAACAAAGCAAAATCAAAAATGC 181
Db 251 GluPheCysAsnAlaSerThrHisAsnGlnGluAlaProAsnLeuGlnAsnGlnMetCys 270

RESULT 15
US-09-542-615A-169
; Sequence 169, Application US/09542615A
; Patent No. 6518256
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy A.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
; FILE REFERENCE: 210121.455C8
; CURRENT APPLICATION NUMBER: US/09/542,615A
; NUMBER OF SEQ ID NOS: 350
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 169
; LENGTH: 592
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-542-615A-169

Alignment Scores:
Pred. No.: 1,65e-13 Length: 592
Score: 156.50 Matches: 29
Percent Similarity: 63.33% Conservative: 9
Best Local Similarity: 48.33% Mismatches: 19
Query Match: 48.30% Indels: 3
DB: 4 Gaps: 1

US-09-049-696-4 (1-181) x US-09-542-615A-169 (1-592)
QY 2 AAAGATGCACATTCAATAAAGTAACAGGACTCTATGAAAAAGGATGTGAGTTTGTCTC 61
Db 214 GluAsnCysIleIleSerLys-----LeuPheLysGluGlyCysThrPheIleTyr 230
QY 62 CAATCCCGCAGCAGGAGAGGCTTCTATATGTTTGCAACATGTTGATTTCTATAGTT 121
Db 231 AsnSerThrGlnAsnAlaThrAlaSerIleMetPheMetGlnSerLeuSerValVal 250
QY 122 GAATTCCTGTACAGAACAAACCAACAAAGAGCTCCAAACAAAGCAAAATCAAAAATGC 181
Db 251 GluPheCysAsnAlaSerThrHisAsnGlnGluAlaProAsnLeuGlnAsnGlnMetCys 270
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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

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(without alignments)  
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Perfect score: 240  
Sequence: 1 AAAATGCTGATGTTCTGGTT.....GAAATCTACTTATCAATG 240

Scoring table: IDENTITY NUC  
Gapop 10\_0 , Gapext 1.0

Searched: 2907579 seqs, 2254313464 residues

Total number of hits satisfying chosen parameters: 5815158

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Post-processing: Minimum Match 0%  
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Listing first 45 summaries

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15: /cgn2\_6/ptodata/2/pubpna/US10C\_PUBCOMB.seq.\*  
16: /cgn2\_6/ptodata/2/pubpna/US10D\_PUBCOMB.seq.\*  
17: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq.\*  
18: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq.\*  
19: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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C 2	240	100.0	533	15	US-10-099-926-1883
C 3	240	100.0	2745	15	US-10-270-595-5
4	240	100.0	2854	15	US-10-106-698-1971
5	240	100.0	2867	15	US-10-106-698-351
6	240	100.0	3109	15	US-10-106-698-2111
7	240	100.0	3111	9	US-09-823-356-25
8	240	100.0	3111	9	US-09-981-353-191
9	240	100.0	3111	15	US-10-235-994-25
10	240	100.0	3267	9	US-09-764-868-22
11	240	100.0	4569	10	US-09-867-034-3
12	240	100.0	4569	13	US-10-276-115-3
13	239	99.6	533	13	US-09-878-134-182
14	238.4	99.3	3007	15	US-10-055-412B-27

15	238.4	99.3	3311	9	US-09-922-217-1056	Sequence 1056, Ap
16	238.4	99.3	3311	9	US-09-833-263-1056	Sequence 1056, Ap
17	238.4	99.3	3311	14	US-10-025-380-1056	Sequence 1056, Ap
18	238.4	99.3	3311	15	US-10-393-590-11	Sequence 11, Appl
19	238.4	99.3	3311	15	US-10-393-590-12	Sequence 12, Appl
20	238.4	99.3	3311	15	US-10-393-590-46	Sequence 46, Appl
21	238.4	99.3	3311	15	US-10-393-590-47	Sequence 47, Appl
22	238.4	99.3	3311	15	US-10-393-567-11	Sequence 11, Appl
23	238.4	99.3	3311	15	US-10-393-567-12	Sequence 12, Appl
24	238.4	99.3	3311	15	US-10-393-567-46	Sequence 46, Appl
25	238.4	99.3	3311	15	US-10-393-567-47	Sequence 47, Appl
26	238.4	99.3	3311	15	US-10-394-087-11	Sequence 11, Appl
27	238.4	99.3	3311	15	US-10-394-087-12	Sequence 12, Appl
28	238.4	99.3	3311	15	US-10-394-087-46	Sequence 46, Appl
29	238.4	99.3	3311	15	US-10-394-087-47	Sequence 47, Appl
30	207	86.2	331	15	US-10-066-543-1682	Sequence 1682, Ap
31	207	86.2	331	15	US-10-066-543-2191	Sequence 2191, Ap
32	207	86.2	508	15	US-10-066-543-1503	Sequence 1503, Ap
33	181.6	75.7	280	14	US-10-033-528-1868	Sequence 1868, Ap
34	181.6	75.7	280	15	US-10-099-926-1868	Sequence 1868, Ap
C 35	165.4	68.9	244	9	US-09-815-343-323	Sequence 323, App
C 36	165.4	68.9	244	13	US-10-097-105-323	Sequence 323, App
37	148.8	62.0	2931	15	US-10-270-595-1	Sequence 1, Appli
38	130.8	54.5	2754	15	US-10-345-680-33	Sequence 33, Appl
39	130.8	54.5	3169	9	US-09-981-353-53	Sequence 53, Appl
40	130.8	54.5	3169	15	US-10-235-994-15	Sequence 15, Appl
41	130.8	54.5	3199	13	US-10-276-774-993	Sequence 993, App
42	130.8	54.5	3204	15	US-10-345-680-31	Sequence 31, Appl
43	130.8	54.5	3218	16	US-10-087-080-33	Sequence 33, Appl
44	130.8	54.5	3265	9	US-09-989-722-378	Sequence 378, App
45	130.8	54.5	3265	9	US-09-989-723-378	Sequence 378, App

ALIGNMENTS

RESULT 1

US-10-033-528-1883/c  
; Sequence 1883, Application US/10033528  
; Publication No. US20020131971A1  
; GENERAL INFORMATION:  
; APPLICANT: King, Gordon E.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Secrist, Heather  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER  
; FILE REFERENCE: 210121.547C1  
; CURRENT APPLICATION NUMBER: US/10/033,528  
; CURRENT FILING DATE: 2001-12-26  
; NUMBER OF SEQ ID NOS: 1896  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1883  
; LENGTH: 533  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: 8, 42, 43, 320, 511  
; OTHER INFORMATION: n = A,T,C or G  
US-10-033-528-1883

Query Match	100.0%	Score 240;	DB 14;	Length 533;
Best Local Similarity	100.0%	Pred. No. 9e-73;	Mismatches 0;	Indels 0;
Matches 240;	Conservative 0;			Gaps 0;
QY	1	AAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCTACACTG	60	
Db	313	AAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCTACACTG	254	
QY	61	ACGAGATGGGCAACTGTGGAGAGAGGGTGAAGATCCACCTCACTCTGATTTTCATG	120	
Db	253	ACGAGATGGGCAACTGTGGAGAGAGGGTGAAGATCCACCTCACTCTGATTTTCATG	194	

	180
Qy	121 CAGGAAAAAGTTACCTGAATATGACACACAAGTAGGGCAATTGTCCATGAGTGGGCTC
	180
Db	193 CAGGAAAAAAGTTAGCTGAATATGACCACAAAGGTAGGGCATTTGTCCATGAGTGGGCTC
	134
Qy	181 ATCTACGATGGGGAGTGATTTCGACGAGTACAATAATGATGAGAAATTCCTATTATCCAATG
	240
Db	133 ATCTACGATGGGGAGTGATTTCGACGAGTACAATAATGATGAGAAATTCCTATTATCCAATG
	74

## RESULT 2

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US-10-099-926-1883/c
; Sequence 1883, Application US/10099926
; Publication No. US20030166064A1
; GENERAL INFORMATION:
; APPLICANT: King, Gordon E.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Xu, Jiangchun
; APPLICANT: Secret, Heather
; APPLICANT: Jiang, Yugu
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
; FILE REFERENCE: 210121.547C2
; CURRENT APPLICATION NUMBER: US/10/099,926
; CURRENT FILING DATE: 2002-03-17
; NUMBER OF SEQ ID NOS: 1982
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1883
; LENGTH: 533
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 8, 42, 43, 320, 511
; OTHER INFORMATION: n = A,T,C or G
US-10-099-926-1883

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## RESULT 3

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RES001 3
US-10-270-595-5
; Sequence 5, Application US/10270595
; Publication No. US20030078409A1
; GENERAL INFORMATION:
; APPLICANT: Magainin Pharmaceuticals, Inc.
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/10/270,595
; CURRENT FILING DATE: 2002-10-16
; PRIOR APPLICATION NUMBER: US/09/623,624
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703

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RESULT 4

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US-10-106-698-1971
; Sequence 1971, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Pol
; FILE REFERENCE: PA005PI
; CURRENT APPLICATION NUMBER: US/10/106,698
; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 1971
; LENGTH: 2854
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-106-698-1971

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Remaining Prior Application data removed - See File Wrapper or PALM.

Query Match 100.0%; Score 240; DB 15; Length 2854;  
Best Local Similarity 100.0%; Pred. No. 2.1e-72;  
Matches 240; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCTACACTG 60  
DB 333 AAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCTACACTG 392  
QY 61 AGCAGATGGGCAACTGTCGAGAGAAGGGTGAAGGATCCACCTCACTCTGATTTTCATTG 120  
DB 393 AGCAGATGGGCAACTGTCGAGAGAAGGGTGAAGGATCCACCTCACTCTGATTTTCATTG 452  
QY 121 CAGGAAAAAGTTAGCTGAATATGGACCAACAAAGGTAGGCATTTGTCATGATGGGCTC 180  
DB 453 CAGGAAAAAGTTAGCTGAATATGGACCAACAAAGGTAGGCATTTGTCATGATGGGCTC 512  
QY 181 ATCTACGATGGGAGTATTGTGACGAGTACATAAATGATGAGAAATTTCTACTTATCCAATG 240  
DB 513 ATCTACGATGGGAGTATTGTGACGAGTACATAAATGATGAGAAATTTCTACTTATCCAATG 572

RESULT 5  
US-10-106-698-351  
; Sequence 351, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005PI  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 351  
; LENGTH: 2867  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-106-698-351

Query Match 100.0%; Score 240; DB 15; Length 2867;  
Best Local Similarity 100.0%; Pred. No. 2.1e-72;  
Matches 240; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCTACACTG 60  
DB 336 AAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCTACACTG 395  
QY 61 AGCAGATGGGCAACTGTCGAGAGAAGGGTGAAGGATCCACCTCACTCTGATTTTCATTG 120  
DB 396 AGCAGATGGGCAACTGTCGAGAGAAGGGTGAAGGATCCACCTCACTCTGATTTTCATTG 455  
QY 121 CAGGAAAAAGTTAGCTGAATATGGACCAACAAAGGTAGGCATTTGTCATGATGGGCTC 180  
DB 456 CAGGAAAAAGTTAGCTGAATATGGACCAACAAAGGTAGGCATTTGTCATGATGGGCTC 515  
QY 181 ATCTACGATGGGAGTATTGTGACGAGTACATAAATGATGAGAAATTTCTACTTATCCAATG 240  
DB 516 ATCTACGATGGGAGTATTGTGACGAGTACATAAATGATGAGAAATTTCTACTTATCCAATG 575

RESULT 6  
US-10-106-698-2111  
; Sequence 2111, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.

; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005PI  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 2111  
; LENGTH: 3109  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-106-698-2111

Query Match 100.0%; Score 240; DB 15; Length 3109;  
Best Local Similarity 100.0%; Pred. No. 2.2e-72;  
Matches 240; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 186 AAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCTACACTG 245  
QY 61 AGCAGATGGGCAACTGTCGAGAGAAGGGTGAAGGATCCACCTCACTCTGATTTTCATTG 120  
DB 246 AGCAGATGGGCAACTGTCGAGAGAAGGGTGAAGGATCCACCTCACTCTGATTTTCATTG 305  
QY 121 CAGGAAAAAGTTAGCTGAATATGGACCAACAAAGGTAGGCATTTGTCATGATGGGCTC 180  
DB 306 CAGGAAAAAGTTAGCTGAATATGGACCAACAAAGGTAGGCATTTGTCATGATGGGCTC 365  
QY 181 ATCTACGATGGGAGTATTGTGACGAGTACATAAATGATGAGAAATTTCTACTTATCCAATG 240  
DB 366 ATCTACGATGGGAGTATTGTGACGAGTACATAAATGATGAGAAATTTCTACTTATCCAATG 425

RESULT 7  
US-09-823-356-25  
; Sequence 25, Application US/09823356  
; Patent No. US20010025098A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Kaser, Matthew R.  
; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
; FILE REFERENCE: PF-0489-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823,356  
; CURRENT FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/039,307  
; PRIOR FILING DATE: 1998 March 13  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PERL Program  
; SEQ ID NO 25  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775  
US-09-823-356-25

Query Match 100.0%; Score 240; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 2.2e-72;

	Matches	240;	Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0;
Qy	1	AAAATGCTGATGTTCTGTTGCTCAGTCTACTCTCCAGGTAAATGATGAACCCCTACACTG	60							
Db	332	AAAATGCTGATGTTCTGTTGCTCAGTCTACTCTCCAGGTAAATGATGAACCCCTACACTG	391							
Qy	61	AGCAGATGGGCAACTGTGGAGAGAAAGGTTGAAAGGATCCACCTCAGTCTCTGATTTTCATTG	120							
Db	392	AGCAGATGGGCAACTGTGGAGAGAAAGGTTGAAAGGATCCACCTCAGTCTCTGATTTTCATTG	451							
Qy	121	CAGAAAAAAGTTAGCTGAATATGGAACCAAGGTAGGGCAATTTGTCATGAGTGGGCTC	180							
Db	452	CAGAAAAAAGTTAGCTGAATATGGAACCAAGGTAGGGCAATTTGTCATGAGTGGGCTC	511							
Qy	181	ATCTACGATGGGGAGTATTTTGAACGAGTACAATAATGATGAAAAATTTCTACTTATCCAAATG	240							
Db	512	ATCTACGATGGGGAGTATTTTGAACGAGTACAATAATGATGAAAAATTTCTACTTATCCAAATG	571							

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RESULT 8
US-09-981-353-191
; Sequence 191, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
; APPLICANT: Lasek, Amy W.
; APPLICANT: Jones, Amy W.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US
; CURRENT APPLICATION NUMBER: US/09/981.353
; CURRENT FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO 191
; LENGTH: 3111
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CB1
US-09-981-353-191

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Query Match	100.0%	Score	240;	DB	9;	Length	3111;
Best Local Similarity	100.0%;	Pred. No.	2.2e-72;				
Matches	240;	Conservative	0;	Mismatches	0;	Indels	0;
Gaps	0;						
Qy	1	AAAATGCTGATGTTCTGGTTCCTCAGTCTACTCTCCAGGTAAATGATGAACCTTACA	CTG	60			
Db	332	AAAATGCTGATGTTCTGGTTCCTCAGTCTACTCTCCAGGTAAATGATGAACCTTACA	CTG	391			
Qy	61	AGCAGATGGGCAACTGTGGAGAGAAAGGTGAAAGGATCCACCTCACTCTGATTTCA	ATTG	120			
Db	392	AGCAGATGGGCAACTGTGGAGAGAAAGGTGAAAGGATCCACCTCACTCTGATTTCA	ATTG	451			
Qy	121	CAGGAAAAAGTTAGCTGAATATCGACCAACAAAGTGGGCATTTGTCCATGAGTGGG	CTC	180			
Db	452	CAGGAAAAAGTTAGCTGAATATCGACCAACAAAGTGGGCATTTGTCCATGAGTGGG	CTC	511			
Qy	181	ATCTACGATGGGGAGTATTTTGACAGGTACATAATATGATGAAAAATTTCTACTT	ATCCCAATG	240			
Db	512	ATCTACGATGGGGAGTATTTTGACAGGTACATAATATGATGAAAAATTTCTACTT	ATCCCAATG	571			

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RESULT 9
US-10-235-994-25
; Sequence 25, Application US/10235994
; Publication No. US20030101002A1
; GENERAL INFORMATION:
; APPLICANT: Bartha, Gabor
; APPLICANT: Walker, Michael
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS
; FILE REFERENCE: ICYT012
; CURRENT APPLICATION NUMBER: US/10/235,994
; CURRENT FILING DATE: 2002-09-04

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; PRIOR APPLICATION NUMBER: US/10/003,608
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,081
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PaetSEQ for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 3111
; TYPE: DNA
; ORGANISM: Human
US-10-235-994-25

Query Match          100.0%; Score 240; DB 15; Length 3111;
Best Local Similarity 100.0%; Pred. No. 2.2e-72;
Matches 240; Conservative 0; Mismatches 0; Indels 0; Gaps 0

QY      1  AAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCCACACG 60
Db      332 AAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCCACACG 391

QY      61  AGCAGATGGGCAACTGTGGAGAGAAGGTTGAAGGATCCACCTCAGTCTCTGATTTCAATG 120
Db      392 AGCAGATGGGCAACTGTGGAGAGAAGGTTGAAGGATCCACCTCAGTCTCTGATTTCAATG 451

QY      121 CAGGAAAAAAGTTAGCTGAAATATGGACCAAGGTAGGGCATTTGTCCATCAGTGGGGCTC 180
Db      452 CAGGAAAAAAGTTAGCTGAAATATGGACCAAGGTAGGGCATTTGTCCATCAGTGGGGCTC 511

QY      181 ATCTACGATGGGGAGTATTTGACGAGTACAAATATGATGAGAAATTTCTACTTATCCAATG 240
Db      512 ATCTACGATGGGGAGTATTTGACGAGTACAAATATGATGAGAAATTTCTACTTATCCAATG 571

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RESULT 10
US-09-764-868-22
; Sequence 22, Application US/09764868
; Patent No. US20020168711A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT232
; CURRENT APPLICATION NUMBER: US/09/764,868
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1510
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 22
; LENGTH: 3267
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-868-22

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	Query Match	100.0%;	Score	240;	DB	9;	Length	3267;
	Best Local	Similarity	100.0%;	Pred. No.	2.2e-72;			
	Matches	240;	Conservative	0;	Mismatches	0;	Indels	0;
	Gaps	0;						
Qy	1	AAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCTACACTG	60					
Db	333	AAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCTACACTG	392					
Qy	61	AGCAGATGGCAACTGTGGAGAGAAGGTTGAAAGGATCCACCTCACCTCTGATTTCAATTG	120					
Db	393	AGCAGATGGCAACTGTGGAGAGAAGGTTGAAAGGATCCACCTCACCTCTGATTTCAATTG	452					
Qy	121	CAGGAAAAAGTTAGCTGAATATGGACCAAGGTAGGGCATTTGTCATGAGTGGGGCTC	180					
Db	453	CAGGAAAAAGTTAGCTGAATATGGACCAAGGTAGGGCATTTGTCATGAGTGGGGCTC	512					
Qy	181	ATCTACGATGGGGAGTATTTGACGAGTACAATATGATGAAATTTCTACTATCCCAATG	240					
Db	513	ATCTACGATGGGGAGTATTTGACGAGTACAATATGATGAAATTTCTACTATCCCAATG	572					

: CURRENT APPLICATION NUMBER: US/10/235,994  
 : CURRENT FILING DATE: 2002-09-04  
 : CURRENT FILING DATE: 2002-09-04



; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 27  
; LENGTH: 3007  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-055-412B-27

Query Match 99.3%; Score 238.4; DB 15; Length 3007;  
Best Local Similarity 99.6%; Pred. No. 7.8e-72;  
Matches 239; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 AAAATGCTGATGTTCTGGTGTCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTG 60  
DB 345 AAAATGCTGATGTTCTGGTGTCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTG 404  
QY 61 AGCAGATGGGCAACTGTGTGAGAGAGAGGGGTGAAGGATCCACCTCACTCTGATTTTCATTG 120  
DB 405 AGCAGATGGGCAACTGTGTGAGAGAGGGGTGAAGGATCCACCTCACTCTGATTTTCATTG 464  
QY 121 CAGGAAAAAAGTTAGTGAATATGGACCAACAGGTAGGGCAATTTGTCATGAGTGGGCTC 180  
DB 465 CAGGAAAAAAGTTAGTGAATATGGACCAACAGGTAAAGGCATTTGTCCATGAGTGGGCTC 524  
QY 181 ATCTACGATGGGGAGTATTTGACGAGTACAATAATGATGAGAAATTTCTACTTTATCCAATG 240  
DB 525 ATCTACGATGGGGAGTATTTGACGAGTACAATAATGATGAGAAATTTCTACTTTATCCAATG 584

## RESULT 15

US-09-922-217-1056  
; Sequence 1056, Application US/09922217  
; Patent No. US20020076414A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Smith, Carole Lynn  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; FILE REFERENCE: 210121.471C13  
; CURRENT APPLICATION NUMBER: US/09/922,217  
; CURRENT FILING DATE: 2001-08-03  
; NUMBER OF SEQ ID NOS: 1124  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1056  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-922-217-1056

Query Match 99.3%; Score 238.4; DB 9; Length 3311;  
Best Local Similarity 99.6%; Pred. No. 8.1e-72;  
Matches 239; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 AAAATGCTGATGTTCTGGTGTCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTG 60

DB 650 AAAATGCTGATGTTCTGGTGTCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTG 709  
QY 61 AGCAGATGGGCAACTGTGTGAGAGAGGGGTGAAGGATCCACCTCACTCTGATTTTCATTG 120  
DB 710 AGCAGATGGGCAACTGTGTGAGAGAGGGGTGAAGGATCCACCTCACTCTGATTTTCATTG 769  
QY 121 CAGGAAAAAAGTTAGTGAATATGGACCAACAGGTAGGGCAATTTGTCATGAGTGGGCTC 180  
DB 770 CAGGAAAAAAGTTAGTGAATATGGACCAACAGGTAAAGGCATTTGTCCATGAGTGGGCTC 829  
QY 181 ATCTACGATGGGGAGTATTTGACGAGTACAATAATGATGAGAAATTTCTACTTTATCCAATG 240  
DB 830 ATCTACGATGGGGAGTATTTGACGAGTACAATAATGATGAGAAATTTCTACTTTATCCAATG 889

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